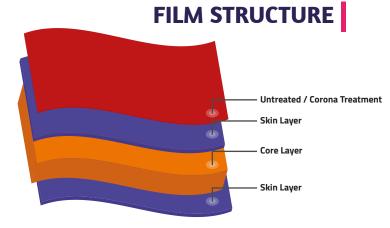


# F-CLR OPTICALLY CLEAR FILM

F-CLR is a transparent low haze BOPET film. The film is one side Corona Treated with one side Untreated or both sides Untreated.

### **KEY FEATURES:**

- Excellent clarity
- Corona Treatment improves bonding
- Excellent machinability & handling properties



# **APPLICATION:**

- Converting & Metallization
- Printing & Lamination
- Solvent & water base coating
- Embossing & Holograms

| PROPERTIES   |  | TEST METHOD | UNIT             |       |       |       |       |       | TYP   | ICAL VA | LUES  |       |       |       |
|--|--|-------------|------------------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|
| THICKNESS  |  | Internal    | Micron           | 9     | 10    | 11    | 12    | 15    | 19    | 23      | 25    | 30    | 36    | 50    |
| THICKINESS   |  | internal    | (Gauge)          | 36    | 40    | 44    | 48    | 60    | 76    | 92      | 100   | 120   | 144   | 200   |
| YIELD  |  | Internal    | m² / kg          | 79.36 | 71.42 | 64.93 | 59.52 | 47.62 | 37.59 | 31.05   | 28.57 | 23.8  | 19.84 | 14.28 |
| TILLED   | meeridi                                    | in² /lb     | 55912            | 50318 | 45745 | 41934 | 33550 | 26483 | 21876 | 20119   | 16768 | 13978 | 10060 |       |
| SURFACE TENSION (min)#<br>(Corona Treated surface)                               |  | ASTM D-2578 | dyne/cm          |       |       |       |       |       | 52    | 2       |       |       |       |       |
| COF (max)  | ASTM D-1894                                |             | 0.50             | 0.50  | 0.50  | 0.50  | 0.50  | 0.45  | 0.45  | 0.45    | 0.45  | 0.45  | 0.45  |       |
| (Untreated to Untreated)<br>(Untreated to Corona Treated)                        |  | ASTM D-1894 | -                | 0.50  | 0.50  | 0.50  | 0.50  | 0.45  | 0.45  | 0.45    | 0.45  | 0.45  | 0.45  | 0.45  |
| HAZE (max)   |  | ASTM D-1003 | %                | 2.2   | 2.2   | 2.4   | 2.4   | 2.6   | 2.6   | 2.6     | 2.6   | 2.6   | 2.8   | 2.8   |
|  | MD   |             |                  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900    | 1900  | 1900  | 1750  | 1750  |
| TENSILE STRENGTH   | TD   | ASTM D-882  | kg/cm²           | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000    | 2000  | 2000  | 2000  | 2000  |
| AT BREAK (min)   | MD   | 7.51W B 662 | (Psi)            | 27000 | 27000 | 27000 | 27000 | 27000 | 27000 | 27000   | 27000 | 27000 | 25000 | 25000 |
|  | TD   |             | (, _,,           | 28500 | 28500 | 28500 | 28500 | 28500 | 28500 | 28500   | 28500 | 28500 | 28500 | 28500 |
| ELONGATION AT BREAK  | MD   | ASTM D-882  |                  | 90    | 100   | 100   | 105   | 105   | 110   | 115     | 115   | 120   | 120   | 125   |
| (min)  | TD   | 7.51W B 002 | %                | 80    | 80    | 85    | 85    | 85    | 85    | 90      | 90    | 90    | 90    | 95    |
| LINEAR SHRINKAGE (max)   | MD   | ASTM D-1204 | %                |       |       |       |       |       | 3.    | 0       |       |       |       |       |
| (30 Minute at 150°C)   | (30 Minute at 150°C) TD ASTINID-1204 " 1.0 |             |                  |       |       |       |       |       |       |         |       |       |       |       |
| MVTR (38° C & 90% RH) (typical) ASTM F-1249 gm/m²/day 50 50 45 45 40 35 30 25 25 |  |             |                  | 20    | 16    |       |       |       |       |         |       |       |       |       |
| (gm/100 in²/d  |  |             |                  | 3.2   | 3.2   | 2.9   | 2.9   | 2.6   | 2.3   | 2.0     | 1.6   | 1.6   | 1.3   | 1.0   |
| OTR (23°C & 0% RH) (typical  | )  | ASTM D-3985 | cc/m²/day        | 155   | 155   | 130   | 130   | 110   | 90    | 80      | 75    | 75    | 70    | 45    |
| (== =====, (сурнал.  | •  |             | (cc/100 in²/day) | 10.1  | 10.1  | 8.5   | 8.5   | 7.1   | 5.8   | 5.2     | 4.8   | 4.8   | 4.5   | 2.9   |

<sup>#</sup> The inherent surface tension of the Untreated side of any PET film is a minimum of 42 dyne/cm.

#### **STORAGE & HANDLING**

SELEXIBLE needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from the date of shipment.

#### **FOOD CONTACT**

SELEXIBLE complies with EU and FDA regulations on plastic materials used for food grade applications. Specific documents and SDS are available on request.

#### **DISCLAIMER**

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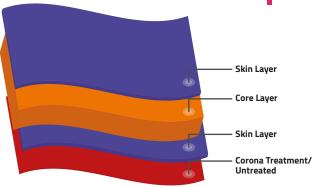
# F-XLR OPTICALLY EXTRA CLEAR FILM

F-XLR is an ultra-clear transparent BOPET film. The film is either both sides Untreated or one side Untreated with the other side Corona Treated.

# **KEY FEATURES:**

- Very high clarity
- Corona treatment improves bonding
- Excellent machinability & handling properties





# **APPLICATION:**

- Conversion
- Printing & Lamination
- Form, Fill, & Seal Structures

| PROPERTIES  |   | TEST METHOD | UNIT             |       | ТҮР   | ICAL VALUE | ES    |       |  |  |
|---|---|-------------|------------------|-------|-------|------------|-------|-------|--|--|
| THICKNESS   |   | Internal    | Micron           | 12    | 23    | 30         | 36    | 50    |  |  |
| MICKINESS   |   | internal    | (Gauge)          | 48    | 92    | 120        | 144   | 200   |  |  |
| YIELD   |   | Internal    | m² / kg          | 59.52 | 31.05 | 23.80      | 19.84 | 14.28 |  |  |
| TILLD   |   | internal    | in² /lb          | 21876 | 16768 | 13978      | 10060 |       |  |  |
| SURFACE TENSION (min) #<br>(Corona Treated surface) |   | ASTM D-2578 | dyne/cm          |       |       | 52         |       |       |  |  |
| COF (max)<br>(One side to the other)                |   |             |                  |       |       |            | 0.45  |       |  |  |
| HAZE (max)  | (max) ASTM D-1003 % 1.0 1.2 1.2 1.3                 |             |                  |       |       |            | 1.3   |       |  |  |
|   | MD  |             |                  | 1900  | 1900  | 1900       | 1750  | 1750  |  |  |
| TENSILE STRENGTH AT BREAK (min)                     | TD  | ASTM D-882  | kg/cm²           | 2000  | 2000  | 2000       | 2000  | 2000  |  |  |
| TENSILE STRENGTH AT BREAK (IIIIII)                  | MD  | A31WI D-002 | (Psi)            | 27000 | 27000 | 27000      | 25000 | 25000 |  |  |
|   | TD  |             | (F3I)            | 28500 | 28500 | 28500      | 28500 | 28500 |  |  |
| ELONGATION AT BREAK (min)                           | MD  | ASTM D-882  |                  | 105   | 115   | 120        | 120   | 125   |  |  |
| ELONGATION AT BREAK (TIMI)                          | TD  | ASTIVID GOZ | %                | 85    | 90    | 90         | 90    | 95    |  |  |
| LINEAR SHRINKAGE (max)                              | MD  | ASTM D-1204 | %                |       |       | 3.0        |       |       |  |  |
| (30 Minute at 150°C)                                | TD  | A31WB 1204  | 70               |       |       | 1.0        | 1.0   |       |  |  |
| MVTR 38°C & 90% RH) (typical)                       |   | ASTM F-1249 | gm/m²/day        | 45    | 30    | 25         | 20    | 16    |  |  |
| 20 20 50 KH IJ (cypical)                            |   |             | (gm/100 in²/day) | 2.9   | 2.0   | 1.6 1.3    |       | 1.0   |  |  |
| OTR (23°C & 0% RH) (typical)                        | 0% RH) (typical) ASTM D-3985 cc/m²/day 130 80 75 70 |             |                  |       | 45    |            |       |       |  |  |
| (=3   |   |             | (cc/100 in²/day) | 8.5   | 5.2   | 4.8        | 4.5   | 2.9   |  |  |

<sup>#</sup> The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

#### STORAGE SOHANDLINGTRANSVERSE DIRECTION

SELEXIBLE needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from the date of shipment.

#### **FOOD CONTACT**

SELEXIBLE complies with EU and FDA regulations on plastic materials used for food grade applications. Specific documents and SDS are available on request.

#### DISCLAIMER

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Manufacturing Facilities at No. 16 Fengxiang Rd, Wujin District, Changzhou City, Jiangsu, China ⊠ sale@selexible.cn www.selexibleplastic.com

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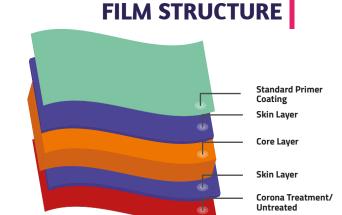


# F-XLR-A1 & A2 OPTICALLY EXTRA CLEAR FILM

F-XLR-A1 & A2 are transparent BOPET films. F-XLR-A1 is one side Corona Treated & the other side Standard Primer Coated. F-XLR-A2 is one side Untreated & the other side Standard Primer Coated.

### **KEY FEATURES:**

- Very high clarity
- Chemical coating provides excellent adhesion with inks & adhesives
- Corona Treatment improves bonding
- Excellent machinability & handling properties



- **APPLICATION:**
- Conversion
- Printing & Lamination
- Form, Fill, & Seal Structures
- Hot fill, Pasteurization

| PROPERTIES  |   | TEST METHOD  | UNIT             |       |       | TY    | PICAL VALU | ES    |       |
|---|---|--------------|------------------|-------|-------|-------|------------|-------|-------|
|   |   | Internal     | Micron           | 9     | 12    | 19    | 23         | 36    | 50    |
| THICKNESS   |   | internai     | (Gauge)          | 36    | 48    | 76    | 92         | 144   | 200   |
| YIELD   |   | Internal     | m² / kg          | 79.36 | 59.52 | 37.59 | 31.05      | 19.84 | 14.28 |
| TIELD   |   | internal     | in² /lb          | 55912 | 41934 | 26483 | 21876      | 13978 | 10060 |
| SURFACE TENSION (min) #                                 | · )   |              |                  |       |       | 4     | .0         |       |       |
| (Standard Primer Coated sur<br>(Corona Treated surface) | face)   | ASTM D-2578  | dyne/cm          |       |       | 5     | 2          |       |       |
| COF (max)<br>(Standard Primer to Untreated)             |   | ASTM D-1894  | _                | 0.45  | 0.45  | 0.45  | 0.45       | 0.45  | 0.45  |
| (Standard Primer to Corona Treated)                     |   |              |                  | 0.50  | 0.50  | 0.50  | 0.50       | 0.50  | 0.50  |
| HAZE (max)  |   | ASTM D-1003  | %                | 1.0   | 1.0   | 1.1   | 1.1        | 1.3   | 1.3   |
|   | MD  |              |                  | 1900  | 1900  | 1900  | 1900       | 1750  | 1750  |
| TENSILE STRENGTH  | TD  | ASTM D-882   | kg/cm²           | 2000  | 2000  | 2000  | 2000       | 2000  | 2000  |
| AT BREAK (min)  | MD  | A31W D-662   | (Psi)            | 27000 | 27000 | 27000 | 27000      | 25000 | 25000 |
|   | TD  |              | (F31)            | 28500 | 28500 | 28500 | 28500      | 28500 | 28500 |
| ELONGATION AT BREAK                                     | MD  | ASTM D-882   |                  | 90    | 105   | 110   | 115        | 120   | 125   |
| (min)   | TD  | ASTIVI D-002 | %                | 80    | 85    | 85    | 90         | 90    | 95    |
| LINEAR SHRINKAGE (max)                                  | MD  | ASTM D-1204  | %                |       |       | 3     | .0         |       |       |
| (30 Minute at 150°C)                                    | TD  | A31WID 1204  | 70               |       |       | 1     | .0         |       |       |
| MVTD /2005 0 000 DUV/+                                  | TD /38°C 8, 90° PH) (typical) ASTM F-1249 gm/m²/day 50 45 35 30 20 10 |              |                  |       |       |       | 16         |       |       |
| MVTR (38° C & 90% RH) (typi                             | (gm/100 in²/day) 3.2 2.9 2.3 2.0                                      |              |                  |       | 1.3   | 1.0   |            |       |       |
| OTR (23°C & 0% RH) (typical                             | )   | ASTM D-3985  | cc/m²/day        | 155   | 130   | 90    | 80         | 70    | 45    |
| , , , (cypical  | •   |              | (cc/100 in²/day) | 10.1  | 8.5   | 5.8   | 5.2        | 4.5   | 2.9   |

<sup>#</sup> The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

#### **STORAGE & HANDLING**

SELEXIBLE needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from the date of shipment.

It is the responsibility of our customer to determine that their use of our products is safe, lawful, and technically suitable in their intended applications. The technical data sheets are provided for discussion

#### **FOOD CONTACT**

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#### DISCLAIMER

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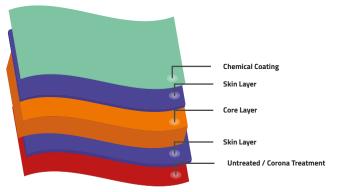
# F-XLR-C1-C2 OPTICALLY EXTRA CLEAR CHEMICAL COATED BOPET FILM

F-XLR-C1-C2 is a Ultra clear BOPET film. The film is one side Chemically Coated and other side Corona Treated or Untreated.

### **KEY FEATURES:**

- Very High transparency & clarity
- One side chemical coating provide excellent adhesion with various inks & adhesives
- Out side corona treated for improved bond with outer substrate
- Excellent machinability & handling properties
- Excellent metal adhesion
- Not suitable for hot filling, sterilization and pasteurization

# FILM STRUCTURE



# **APPLICATION:**

- Conversion
- Metallization, Solvent & water base coating
- Embossing & Holograms
- Printing & lamination

| PROPERTIES   | TEST METHOD    | UNIT             |             | TYPICAL VALUES         |       |  |  |
|--|----------------|------------------|-------------|------------------------|-------|--|--|
| THICKNESS  | Internal       | Micron           | 12          | 23                     | 36    |  |  |
| INICKNESS  | internai       | (Gauge)          | 48          | 92                     | 144   |  |  |
| YIELD  | Internal       | m² / kg          | 59.52       | 31.05                  | 19.84 |  |  |
| TILLD  | internal       | in² /lb          | 41934       | 21876                  | 13978 |  |  |
| SURFACE TENSION #<br>(Chemical Coated Side)              |                |                  |             | 60                     |       |  |  |
| (Corona Treated Side)                                    | ASTM D-2578    | -                |             | 52                     |       |  |  |
| COF (max)  | ACTM D 400/    |                  | 0.50        | 0.45                   | 0.45  |  |  |
| (Coated to Untreated)<br>(Coated to Corona Treated Side) | ASTM D-1894    | -                | 0.55        | 0.45 0.45<br>0.50 0.50 |       |  |  |
| HAZE (max)   | ASTM D-1003    | %                | 1.0         | 1.2 1.3                |       |  |  |
|  | MD             |                  | 1900        | 1900                   | 1750  |  |  |
| TENSILE STRENGTH AT BREAK (min)                          | TD ASTM D-882  | kg/cm²           | 2000        | 2000                   | 2000  |  |  |
| TENSILE STRENGTH AT BREAK (IIIIII)                       | MD ASTIVID-862 | (Psi)            | 27000       | 27000                  | 25000 |  |  |
|  | TD             | (F3I)            | 28500       | 28500                  | 28500 |  |  |
| ELONGATION AT BREAK (min)                                | MD ASTM D-882  |                  | 105         | 115                    | 120   |  |  |
| ELONGATION AT BICER (TIIII)                              | TD ASTIVID-862 | %                | 85          | 90                     | 90    |  |  |
| LINEAR SHRINKAGE (max)                                   | MD ASTM D-1204 | %                |             | 3.0                    | •     |  |  |
| (30 Minute at 150°C)                                     | TD A31W D-1204 | /6               |             | 1.0                    |       |  |  |
| W.V.T.R. (38° C & 90% RH) (typical)                      | ASTM F-1249    | gm/m²/day        | 45          | 30                     | 20    |  |  |
| vv.v.i.i.c. (30° C & 30% Ki i) (cypical)                 |                | (gm/100 in²/day) | 2.9         | 2.0                    | 1.3   |  |  |
| OTR (23°C & 0% RH) (typical)                             | ASTM D-3985    | cc/m²/day        | 130         | 80                     | 70    |  |  |
| oriciza e a owner (typical)                              | 3              | (cc/100 in²/day) | 8.5 5.2 4.5 |                        |       |  |  |

<sup>#</sup> The inherent surface tension of the untreated side of any Pet film is minimum 42 dyne/cm

#### **STORAGE & HANDLING**

SELEXIBLE need to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from date of shipment.

#### **FOOD CONTACT**

SELEXIBLE complies with EU and FDA regulations on plastic materials used for food grade application. Specific document and SDS are available on request.

#### **DISCLAIMER**

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# F-XLR-T1-T2

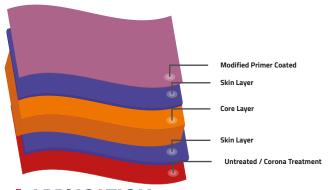
# OPETICALLY EXTRA CLEAR MODIFIED PRIMER COATED BOPET FILM

F-XLR-T1-T2 is a Ultra clear BOPET film. The film is one side Modified Primer Coated and other side Corona Treated or Untreated.

### **KEY FEATURES:**

- Very High transparency & clarity
- One side chemical coating provide excellent adhesion with various inks & adhesives
- Out side corona treated for improved bond with outer substrate
- Excellent machinability & handling properties
- Improved metal adhesion

# FILM STRUCTURE



# **APPLICATION:**

- Conversion, Metallization
- Printing & lamination
- FFS machine

| PROPERTIES   |    | TEST METHOD | UNIT             |             | TYPICAL VALUES |       |  |
|--|----|-------------|------------------|-------------|----------------|-------|--|
| THICKNESS  |    | Internal    | Micron           | 12          | 23             | 36    |  |
| THICKNESS  |    | mternai     | (Gauge)          | 48          | 92             | 144   |  |
| YIELD  |    | Internal    | m² / kg          | 59.52       | 31.05          | 19.84 |  |
| TILLD  |    | IIIterriai  | in² /lb          | 41934       | 21876          | 13978 |  |
| SURFACE TENSION #<br>(Modified Primer Coated Side)       |    |             |                  |             | 52             |       |  |
| (Corona Treated Side)                                    |    | ASTM D-2578 | -                |             | 52             |       |  |
| COF (max)  |    | ACTAAD 4007 |                  | 0.50        | 0.50           | 0.50  |  |
| (Coated to Untreated)<br>(Coated to Corona Treated Side) |    | ASTM D-1894 | -                | 0.45        | 0.45           | 0.45  |  |
| HAZE (max)   |    | ASTM D-1003 | %                | 1.0 1.2 1.3 |                |       |  |
|  | MD |             |                  | 1900        | 1900           | 1750  |  |
| TENSILE STRENGTH AT BREAK (min)                          | TD | ASTM D-882  | kg/cm²           | 2000        | 2000           | 2000  |  |
| TENSILE STRENGTH AT BREAK (ITIIII)                       | MD | A51WI D-882 | (Psi)            | 27000       | 27000          | 25000 |  |
|  | TD |             | (PSI)            | 28500       | 28500          | 28500 |  |
| ELONGATION AT BREAK (min)                                | MD | ASTM D-882  |                  | 100         | 120            | 130   |  |
| ELONGATION AT BREAK (ITIIII)                             | TD | A31W D-002  | %                | 85          | 90             | 90    |  |
| LINEAR SHRINKAGE (max)                                   | MD | ASTM D-1204 | %                |             | 3.0            |       |  |
| (30 Minute at 150°C) TD                                  |    | 731M D-1504 | 70               |             | 1.0            |       |  |
| W.V.T.R. (38° C & 90% RH) (typical)                      |    | ASTM F-1249 | gm/m²/day        | 45          | 30             | 20    |  |
| www.m.n. (50° C & 50 % M I) (typical)                    |    |             | (gm/100 in²/day) | 2.9         | 2.0            | 1.3   |  |
| OTR (23°C & 0% RH) (typical)                             |    | ASTM D-3985 | cc/m²/day        | 130         | 80             | 70    |  |
| 5(25 ° 5.5) (cypical)                                    |    |             | (cc/100 in²/day) | 8.5         | 5.2            | 4.5   |  |

<sup>#</sup> The inherent surface tension of the untreated side of any Pet film is minimum 42 dyne/cm

#### **STORAGE & HANDLING**

SELEXIBLE need to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from date of shipment.

#### **FOOD CONTACT**

SELEXIBLE complies with EU and FDA regulations on plastic materials used for food grade application. Specific document and SDS are available on request.

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# Selexible



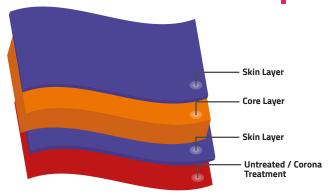
# **F-HTF**HOT STAMPING BASE FILM

F-HTF is a transparent BOPET film. The film is either both sides Untreated or one side Corona Treated with other side Untreated.

### **KEY FEATURES:**

- Excellent clarity
- Very high thermal stability
- Excellent machinability & handling properties
- High mechanical properties





# **APPLICATION:**

 This grade of film is ideal as a transfer foil to transfer designs on paper, textile, or plastics

| PROPERTIES  |          | TEST METHOD  | UNIT             |       |       |       |       | TY    | PICAL V | ALUES      |            |            |            |
|---|----------|--------------|------------------|-------|-------|-------|-------|-------|---------|------------|------------|------------|------------|
| TURINEGE  |          | Internal     | Micron           | 11    | 11.5  | 12    | 15    | 19    | 23      | 36         | 45         | 50         | 60         |
| THICKNESS   |          | internal     | (Gauge)          | 44    | 46    | 48    | 60    | 76    | 92      | 144        | 180        | 200        | 240        |
| YIFI D  |          | Internal     | m² / kg          | 64.93 | 62.11 | 59.52 | 47.62 | 37.59 | 31.05   | 19.84      | 15.87      | 14.28      | 11.9       |
| YIELD   |          |              | in² /lb          | 45745 | 43736 | 41934 | 33550 | 26483 | 21876   | 13978      | 11181      | 10060      | 8384       |
| SURFACE TENSION (min) #<br>(Corona Treated surface) |          | ASTM D-2578  | dyne/cm          |       |       |       |       | 52    |         |            |            |            |            |
| COF (max)<br>(Corona Treated to Untreated)          |          | ACTIND 100/  |                  | 0.50  | 0.50  | 0.50  | 0.50  | 0.50  | 0.50    | 0.45       | 0.45       | 0.45       | 0.45       |
| (Untreated to Untreated)                            | )        | ASTM D-1894  | -                | 0.45  | 0.45  | 0.45  | 0.45  | 0.40  | 0.40    | 0.40       | 0.40       | 0.40       | 0.40       |
| HAZE (max)  |          | ASTM D-1003  | %                | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   | 4.5     | 5.0        | 5.5        | 5.5        | 6.0        |
|   | MD       |              |                  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900    | 1750       | 1750       | 1750       | 1750       |
| TENSILE STRENGTH                                    | TD       | ASTM D-882   | kg/cm²           | 2000  | 2000  | 2000  | 2000  | 2000  | 2000    | 2000       | 2000       | 2000       | 2000       |
| AT BREAK (min)                                      | MD       | A31WI D-002  | (Psi)            | 27000 | 27000 | 27000 | 27000 | 27000 | 27000   | 25000      | 25000      | 25000      | 25000      |
|   | TD       |              | (1 51)           | 28500 | 28500 | 28500 | 28500 | 28500 | 28500   | 28500      | 28500      | 28500      | 28500      |
| ELONGATION AT BREAK                                 | MD       | ASTM D-882   |                  | 100   | 100   | 105   | 105   | 110   | 115     | 120        | 125        | 125        | 130        |
| LEGINGATION AT BILLAR                               | TD       | ASTIVID 002  | %                | 85    | 85    | 85    | 85    | 85    | 90      | 90         | 90         | 95         | 100        |
| LINEAR SHRINKAGE (max)                              | MD       | ASTM D-1204  |                  | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0     | -          | -          | -          | -          |
| (5 Minute at 190°C)                                 | TD       | A31W D-1204  | %                | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6     | -          | -          | -          | -          |
| (30 Minute at 150°C)                                | MD<br>TD |              |                  | -     | _     | -     | -     | -     | -       | 2.0<br>0.8 | 2.0<br>0.8 | 2.0<br>0.8 | 2.0<br>0.8 |
| A 10 TTD (200 C 0 000 T 10 T                        |          | ASTM F-1249  | gm/m²/day        | 45    | 45    | 45    | 40    | 35    | 30      | 20         | 18         | 16         | 10         |
| MVTR (38° C & 90% RH) (typ                          | ıcal)    | A311VIF-1249 | (gm/100 in²/day) | 2.9   | 2.9   | 2.9   | 2.6   | 2.3   | 2.0     | 1.3        | 1.2        | 1.0        | 0.6        |
| OTD /2205 0 00 DUI '                                |          | ACTM D. 2005 | cc/m²/day        | 130   | 130   | 130   | 110   | 90    | 80      | 70         | 46         | 45         | 36         |
| OTR (23°C & 0% RH) (typica                          | 1)       | ASTM D-3985  | (cc/100 in²/day) | 8.5   | 8.5   | 8.5   | 7.1   | 5.8   | 5.2     | 4.5        | 3.0        | 2.9        | 2.4        |

 $<sup>\</sup>sharp$  The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

#### **STORAGE & HANDLING**

SELEXIBLE needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from the date of shipment.

#### **FOOD CONTACT**

SELEXIBLE complies with EU and FDA regulations on plastic materials used for food grade applications. Specific documents and SDS are available on request.

#### DISCLAIMER

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# F-HTF-A1 & A2 PRIMER COATED HOT STAMPING BASE FILM

F-HTF-A1 & A2 is a transparent BOPET film. F-HTF-A1 film is one side Corona treated & other the side Standard Primer Coated. F-HTF-A2 film is one side Untreated & other the side Standard Primer Coated.

### **KEY FEATURES:**

- Excellent clarity
- Very high thermal stability
- Excellent machinability & handling properties
- High mechanical properties



### **APPLICATION:**

 This grade of film is ideal as a transfer foil to transfer designs on paper, textile, or plastics

| PROPERTIES   |          | TEST METHOD  | UNIT             |       |       |       | TYP   | ICAL VALU | JES   |  |            |
|--|----------|--------------|------------------|-------|-------|-------|-------|-----------|-------|--|------------|
|  |          | la taman l   | Micron           | 11    | 12    | 15    | 19    | 23        | 36    | 45   | 50         |
| THICKNESS  |          | Internal     | (Gauge)          | 44    | 48    | 60    | 76    | 92        | 144   | 180  | 200        |
| VIELD  |          | Internal     | m² / kg          | 64.93 | 59.52 | 47.62 | 37.59 | 31.05     | 19.84 | 15.87  | 14.28      |
| YIELD  |          | internal     | in² /lb          | 45745 | 41934 | 33550 | 26483 | 21876     | 13978 | 11181  | 10060      |
| SURFACE TENSION (min) #<br>(Standard Primer Coated sur | rfaco)   | ACTM D. 2570 |                  | 40    |       |       |       |           |       |  |            |
| (Corona Treated surface)                               | racej    | ASTM D-2578  | dyne/cm          |       |       |       | 52    |           |       |  |            |
| COF (max)<br>(Standard Primer to Corona 1              | [roated] | ACTM D 400/  |                  | 0.50  | 0.50  | 0.50  | 0.50  | 0.50      | 0.45  | 0.45   | 0.45       |
| (Standard Primer to Untreated)                         |          | ASTM D-1894  | -                | 0.45  | 0.45  | 0.45  | 0.40  | 0.40      | 0.40  | 0.40   | 0.40       |
| HAZE (max)   |          | ASTM D-1003  | %                | 4.0   | 4.0   | 4.0   | 4.0   | 4.5       | 5.0   | 5.5  | 5.5        |
|  | MD       |              |                  | 1900  | 1900  | 1900  | 1900  | 1900      | 1750  | 1750   | 1750       |
| TENSILE STRENGTH                                       | TD       | ASTM D-882   | kg/cm²           | 2000  | 2000  | 2000  | 2000  | 2000      | 2000  | 2000   | 2000       |
| AT BREAK (min)   | MD       | A31W D-002   | (Psi)            | 27000 | 27000 | 27000 | 27000 | 27000     | 25000 | 25000  | 25000      |
|  | TD       |              | (1 31)           | 28500 | 28500 | 28500 | 28500 | 28500     | 28500 | 144 180  19.84 15.87 1  13978 11181 1  0.45 0.45 0.40  0.40 0.40 0.40  5.0 5.5  1750 1750 2000 2  25000 25000 2  25000 25000 2  28500 28500 2  120 125 90 90 2.0  0.8 0.8 0.8  20 18  1.3 1.2  70 55 | 28500      |
| ELONGATION AT BREAK                                    | MD       | ASTM D-882   |                  | 100   | 105   | 105   | 110   | 115       | 120   | 125  | 125        |
| (min)  | TD       | ASTINI D GGZ | %                | 85    | 85    | 85    | 85    | 90        | 90    | 90   | 95         |
| LINEAR SHRINKAGE (max)                                 | MD       |              |                  | 5.0   | 5.0   | 5.0   | 5.0   | 5.0       |       | -  | -          |
| (5 Minute at 190°C)                                    | TD       | ASTM D-1204  | %                | 0.6   | 0.6   | 0.6   | 0.6   | 0.6       |       |  | -          |
| (30 Minute at 150°C)                                   | MD       |              |                  |       | -     | -     | -     | -         |       |  | 2.0<br>0.8 |
|  | טו       |              | gm/m²/day        | 45    | 45    | 40    | 35    | 30        |       |  | 16         |
| MVTR (38° C & 90% RH) (typical) ASTM F-1249            |          |              | (gm/100 in²/day) | 2.9   | 2.9   | 2.6   | 2.3   | 2.0       |       |  | 1.0        |
| OTR (23° C & 0% RH) (typical                           | )        | ASTM D-3985  | cc/m²/day        | 130   | 130   | 110   | 90    | 80        | 70    | 55   | 45         |
| OTT (25 C & ON NT) (typical                            | ,        |              | (cc/100 in²/day) | 8.5   | 8.5   | 7.1   | 5.8   | 5.2       | 4.5   | 3.5  | 2.9        |

<sup>#</sup> The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

#### **STORAGE & HANDLING**

SELEXIBLE needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from the date of shipment.

#### **FOOD CONTACT**

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#### **DISCLAIMER**

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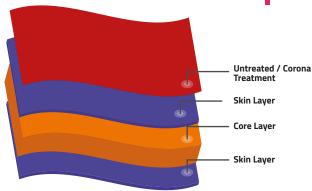
# F-SLC SILICON COATABLE FILM

F-SLC is a transparent BOPET film. The film is either both sides Untreated or one side Corona Treated with the other side Untreated.

# **KEY FEATURES:**

- High mechanical strength & durability
- Good clarity
- Excellent machinability properties
- Good thermal & dimensional stability





### **APPLICATION:**

 This film grade is specially designed for silicon coating applications

| PROPERTIES   |    | TEST METHOD | UNIT             |       | ТҮР   | ICAL VALUE | ES    |       |
|--|----|-------------|------------------|-------|-------|------------|-------|-------|
| THICKNESS  |    | Internal    | Micron           | 19    | 23    | 30         | 36    | 50    |
| ITICKIVE33   |    | internai    | (Gauge)          | 76    | 92    | 120        | 144   | 200   |
| YIELD  |    | Internal    | m² / kg          | 37.59 | 31.05 | 23.80      | 19.84 | 14.28 |
| HELD   |    | internal    | in² /lb          | 26483 | 21876 | 16768      | 13978 | 10060 |
| SURFACE TENSION (min) # (Corona side)                  |    | ASTM D-2578 | dyne/cm          |       |       | 52         |       |       |
| COF (max)<br>(Untreated to Untreated)                  |    | ASTM D-1894 |                  | 0.40  | 0.40  | 0.40       | 0.35  | 0.35  |
| (Untreated to Untreated) (Untreated to Corona Treated) |    | ASTM D-1894 | -                | 0.40  | 0.40  | 0.40       | 0.40  | 0.40  |
| HAZE (min)   |    | ASTM D-1003 | %                | 4.0   | 5.0   | 5.5        | 6.0   | 7.0   |
|  | MD |             |                  | 2100  | 2100  | 2100       | 2100  | 1900  |
| TENSILE STRENGTH AT BREAK (min)                        | TD | ASTM D-882  | kg/cm²           | 2000  | 2000  | 2000       | 2000  | 2000  |
| TENSILE STRENGTH AT BREAK (IIIIII)                     | MD | A31WI D-002 | (Psi)            | 30000 | 30000 | 30000      | 30000 | 27000 |
|  | TD |             | (F3I)            | 28500 | 28500 | 28500      | 28500 | 28500 |
| ELONGATION AT BREAK (min)                              | MD | ASTM D-882  |                  | 110   | 115   | 120        | 125   | 125   |
| ELONGATION AT BREAK (TIMI)                             | TD | ASTIVID GOZ | %                | 90    | 90    | 90         | 90    | 95    |
| LINEAR SHRINKAGE (max)                                 | MD | ASTM D-1204 | %                |       |       | 3.0        |       |       |
| (30 Minute at 150°C)                                   | TD | A31WB 1204  | 70               | 0.0   |       |            |       |       |
| MVTR 38°C & 90% RH) (typical)                          |    | ASTM F-1249 | gm/m²/day        | 35    | 30    | 25         | 20    | 16    |
| WWW. TR 30 C & 30 % Ki I) (typical)                    |    |             | (gm/100 in²/day) | 2.3   | 2.0   | 1.6 1.3    |       | 1.0   |
| OTR (23°C & 0% RH) (typical) ASTM D-3985 cc/m²/da      |    | cc/m²/day   | 90               | 80    | 75    | 70         | 45    |       |
| 311(25 C & 5% 1(1) (typical)                           |    |             | (cc/100 in²/day) | 5.8   | 5.2   | 4.8        | 4.5   | 2.9   |

<sup>#</sup> The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

#### STORAGE SOHANDLINGTRANSVERSE DIRECTION

SELEXIBLE needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from the date of shipment.

#### **FOOD CONTACT**

SELEXIBLE complies with EU and FDA regulations on plastic materials used for food grade applications. Specific documents and SDS are available on request

#### DISCLAIMER

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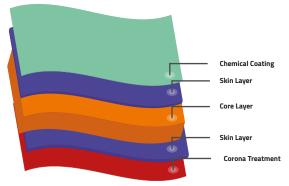
# **F-CCY**CHEMICAL COATED YARN GRADE FILM

F-CCY is a transparent BOPET film. The Film is one side chemical coated other side corona treated.

### **KEY FEATURES:**

- Excellent clarity & transparency
- Very High thermal stability
- Excellent machinability & handling properties
- High mechanical properties
- Improved adhesion to metal & various Inks on chemical coated side & enhances laminate bond strength with outer substrate

# FILM STRUCTURE



### APPLICATION:

- Metallic yarn
- Synthetic jari(Yarn)
- Metallization, Lacquering
- Printing & lamination

| PROPERTIES                                       | TEST METHOD    | UNIT             | TYPICAL VALUES |       |  |
|--|----------------|------------------|----------------|-------|--|
| THICKNESS  | Internal       | Micron           | 12             | 23    |  |
| THICKNESS  | internal       | (Gauge)          | 48             | 92    |  |
| YIELD  | Internal       | m² / kg          | 59.52          | 31.05 |  |
| TILLED   | meemar         | in² /lb          | 41934          | 21876 |  |
| SURFACE TENSION #                                |                |                  | 6              | 50    |  |
| (Chemical Coated Side)<br>(Corona Treadted side) | ASTM D-2578    | -                | -              | 52    |  |
| COF (max)<br>(One side to the other side)        | ASTM D-1894    | -                | 0.5            | 0.5   |  |
| HAZE (max)                                       | ASTM D-1003    | %                | 4.0            | 4.5   |  |
| МІ   | )              |                  | 2000           | 2000  |  |
| TENSILE STRENGTH AT BREAK (min)                  | ASTM D-882     | kg/cm²           | 2100           | 2100  |  |
| ME   | A31W B 662     | (Psi)            | 28500          | 28500 |  |
| TC   |                | (1 31)           | 30000          | 30000 |  |
| ELONGATION AT BREAK (min)                        | ASTM D-882     |                  | 105            | 120   |  |
| TE   |                | %                | 80             | 90    |  |
| LINEAR SHRINKAGE (max) MI                        | ASTM D-1204    | %                | L              | 0.0   |  |
| (5 Minute at 190°C)                              |                | ~                | (              | ).5   |  |
| W.V.T.R. (38° C & 90% RH) (typical)              | ASTM F-1249    | gm/m²/day        | 45             | 30    |  |
| vv.v.n.n. (50° C & 50% KH) (typical)             |                | (gm/100 in²/day) | 2.9            | 2.0   |  |
| OTR (23°C & 0% RH) (typical)                     | ASTM D-3985    | cc/m²/day        | 130            | 80    |  |
| OTA (23°C & 0% KH) (typical)                     | 7.51111 5 5505 | (cc/100 in²/day) | 8.5            | 5.2   |  |

<sup>#</sup> The inherent surface tension of the untreated side of any Pet film is minimum 42 dyne/cm

#### **STORAGE & HANDLING**

SELEXIBLE need to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from date of shipment.

#### **FOOD CONTACT**

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#### **DISCLAIMER**

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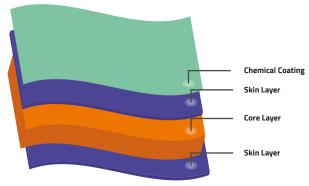
# **F-CHY**CHEMICAL COATED YARN GRADE FILM

F-CHY is a transparent BOPET film. The Film is one side chemical coated other side untreated.

# **KEY FEATURES:**

- Excellent clarity & transparency
- Very High thermal stability
- Excellent machinability & handling properties
- High mechanical properties
- Improved metal & various type Ink adhesion on chemical coated side

# FILM STRUCTURE



# **APPLICATION:**

- Metallie yarn
- Synthetic Jari (yarn)
- Metallization Lacquering
- Printing & Lamination

| PROPERTIES                                  |    | TEST METHOD     | UNIT             | TYPICAL | VALUES |
|---|----|-----------------|------------------|---------|--------|
| THICKNESS                                   |    | Internal        | Micron           | 12      | 23     |
| ITIICKNESS                                  |    | internal        | (Gauge)          | 48      | 92     |
| YIELD                                       |    | Internal        | m² / kg          | 59.52   | 31.05  |
| HELD  |    | memai           | in² /lb          | 41934   | 21876  |
| SURFACE TENSION #<br>(Chemical Coated Side) |    | ASTM D-2578     | -                | 6       | 50     |
| COF (max)<br>(One side to the other side)   |    | ASTM D-1894     | -                | 0.5     | 0.5    |
| HAZE (max)                                  |    | ASTM D-1003     | %                | 4.0     | 4.5    |
|   | MD |                 |                  | 2000    | 2000   |
| TENSILE STRENGTH AT BREAK (min)             | TD | ASTM D-882      | kg/cm²           | 2100    | 2100   |
| TENSILE STRENGTH AT BREAK (ITIIII)          | MD | A31W D-862      | (Psi)            | 28500   | 28500  |
|   | TD |                 | (1 31)           | 30000   | 30000  |
| ELONGATION AT BREAK (min)                   | MD | ASTM D-882      |                  | 105     | 120    |
| ELONGATION AT BREAK (ITIIII)                | TD | A31W D-002      | %                | 80      | 90     |
| LINEAR SHRINKAGE (max)                      | MD | ASTM D-1204     | %                | L       | ٠.0    |
| (5 Minute at 190°C)                         | TD | AJ 1101 D- 1204 | /0               |         | ).5    |
| W.V.T.R. (38° C & 90% RH) (typical)         |    | ASTM F-1249     | gm/m²/day        | 45      | 30     |
| vv.v.i.i.c. (50° C & 50% Ki i) (typical)    |    |                 | (gm/100 in²/day) | 2.9     | 2.0    |
| OTR (23°C & 0% RH) (typical)                |    | ASTM D-3985     | cc/m²/day        | 130     | 80     |
| 5(25 C & 0 % 11 1) (cypical)                |    |                 | (cc/100 in²/day) | 8.5     | 5.2    |

<sup>#</sup> The inherent surface tension of the untreated side of any Pet film is minimum 42 dyne/cm

#### **STORAGE & HANDLING**

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#### **FOOD CONTACT**

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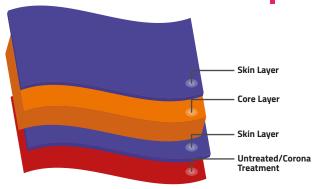
# **F-YRN** YARN GRADE FILM

F-YRN is a transparent BOPET film. The film is either both sides Untreated or one side Corona Treated with the other side Untreated.

# **KEY FEATURES:**

- Excellent clarity
- Very high thermal stability
- Excellent machinability & handling properties
- High mechanical properties





# **APPLICATION:**

- Metallic yarn
- Synthetic jari (yarn)
- Metallization & Lacquering

| PROPERTIES  |    | TEST METHOD   | UNIT             |       | ТҮР   | ICAL VALUE | S  |       |
|---|----|---------------|------------------|-------|-------|------------|--|-------|
| THICKNESS   |    | Internal      | Micron           | 12    | 15    | 23         | 36<br>144<br>19.84<br>13978<br>0.50<br>0.45<br>4.5<br>1750<br>2000<br>25000<br>28500<br>150<br>100<br>-<br>-<br>2.0<br>0.5<br>20<br>1.3<br>70<br>4.5 | 50    |
| THICKNESS   |    | internal      | (Gauge)          | 48    | 60    | 92         | 144  | 200   |
| YIELD   |    | Internal      | m² / kg          | 59.52 | 47.62 | 31.05      | 19.84  | 14.28 |
| HELD  |    | memai         | in² /lb          | 41936 | 33550 | 21876      | 13978  | 10060 |
| SURFACE TENSION (min) #<br>(Corona treated surface)       |    | ASTM D-2578   | dyne/cm          |       |       | 52         |  |       |
| COF (max)   |    |               |                  | 0.55  | 0.55  | 0.50       | 0.50   | 0.50  |
| (Corona Treated to Untreated)<br>(Untreated to Untreated) |    | ASTM D-1894   | -                | 0.50  | 0.50  | 0.45       | 0.45   | 0.40  |
| HAZE (max)  |    | ASTM D-1003   | %                | 4.0   | 4.0   | 4.5        | 4.5  | 4.5   |
|   | MD |               |                  | 2000  | 2000  | 2000       | 1750   | 1750  |
| TENSILE STRENGTH AT BREAK (min)                           | TD | ASTM D-882    | kg/cm²           | 2100  | 2100  | 2100       | 36<br>144<br>19.84<br>13978<br>0.50<br>0.45<br>4.5<br>1750<br>2000<br>25000<br>28500<br>150<br>100<br>-<br>-<br>2.0<br>0.5<br>20<br>1.3              | 2000  |
| TENSILE STRENGTH AT BREAK (TIIII)                         | MD | A31WI D-002   | (Psi)            | 28500 | 28500 | 28500      | 25000  | 25000 |
|   | TD |               | (1 31)           | 30000 | 30000 | 30000      | 28500  | 28500 |
| ELONGATION AT BREAK (min)                                 | MD | ASTM D-882    |                  | 100   | 100   | 120        | 150  | 150   |
| ELONGATION AT BREAK (TIMI)                                | TD | A31WI D-002   | %                | 80    | 80    | 90         | 100  | 110   |
| LINEAR SHRINKAGE (max)                                    | MD |               |                  | 4.0   | 4.0   | 4.0        | -  | -     |
| (5 Minute at 190°C)                                       | TD | ASTM D-1204   | %                | 0.5   | 0.5   | 0.5        | -  | -     |
| (30 Minute at 150°C)                                      | MD | ASTIVI D-1204 | /6               | -     | -     | -          | 2.0  | 2.0   |
| (55 46 46 150 6)  | TD |               |                  | -     | -     | -          | 0.5  | 0.5   |
| MVTR 38°C & 90% RH) (typical)                             |    | ASTM F-1249   | gm/m²/day        | 45    | 40    | 30         | 20   | 16    |
| MV III SO C & SON IVI I, (cypical)                        |    |               | (gm/100 in²/day) | 2.9   | 2.6   | 2.0        |  | 1.0   |
| OTR (23°C & 0% RH) (typical)                              |    | ASTM D-3985   | cc/m²/day        | 130   | 110   | 80         | 70   | 45    |
| on (25 ca on tin) (typical)                               |    |               | (cc/100 in²/day) | 8.5   | 7.1   | 5.2        | 4.5  | 2.9   |

<sup>#</sup> The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

#### **STORAGE & HANDLING**

SELEXIBLE needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from the date of shipment.

#### **FOOD CONTACT**

SELEXIBLE complies with EU and FDA regulations on plastic materials used for food grade applications. Specific documents and SDS are available on request.

#### DISCLAIMER

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Manufacturing Facilities

Selexible

Manufacturing Facilities at No. 16
Fengxiang Rd, Wujin District,
Changzhou City, Jiangsu, China
sale@selexible.cn

www.selexibleplastic.com



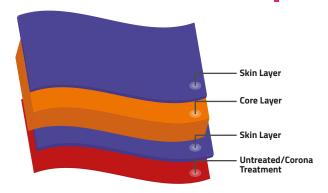
# F-ELE ELECTRICAL INSULATION FILM

F-ELE is a transparent BOPET film. The film is one side Corona Treated with one side Untreated or both sides Untreated.

# **KEY FEATURES:**

- Excellent dielectrical properties
- High break down voltage
- Excellent machinability & handling properties
- High electrical receptivity

# FILM STRUCTURE



# **APPLICATION:**

- Electrical insulation
- Motor winding & cable over wrap
- Leatheroid Lamination
- Electrical insulation tape

| PROPERTIES  |     | TEST METHOD | UNIT             |       |       | TYP   | 76 92 144 200 2 37.59 31.05 19.84 14.2 0 26483 21876 13978 1006  52  0.50 0.50 0.45 0.45  4.5 5.0 7.0 9.0 0 1900 1900 1750 175 0 2000 2000 2000 2000 0 27000 27000 25000 2500 0 28500 28500 28500 2850 110 115 120 125 85 90 90 95 3.0 1.0 |       |       |       |
|---|-----|-------------|------------------|-------|-------|-------|--|-------|-------|-------|
| THICKNESS   |     | Internal    | Micron           | 8     | 12    | 15    | 19   | 23    | 36    | 50    |
| THICKINESS  |     | internai    | (Gauge)          | 32    | 48    | 60    | 76   | 92    | 144   | 200   |
| YEILD   |     | Internal    | m² / kg          | 89.28 | 59.52 | 47.62 | 37.59  | 31.05 | 19.84 | 14.28 |
| TEILD   |     | internal    | in² /lb          | 62901 | 41934 | 33550 | 26483  | 21876 | 13978 | 10060 |
| SURFACE TENSION (min) #<br>(Corona Treated surface) |     | ASTM D-2578 | 78 dyne/cm 52    |       |       |       |  |       |       |       |
| COF (max)<br>(One side to the other)                |     | ASTM D-1894 | -                | 0.50  | 0.50  | 0.50  | 0.50   | 0.50  | 0.45  | 0.45  |
| HAZE (min)  |     | ASTM D-1003 | %                | 3.5   | 3.5   | 4.0   | 4.5  | 5.0   | 7.0   | 9.0   |
|   | MD* |             |                  | 1900  | 1900  | 1900  | 1900   | 1900  | 1750  | 1750  |
| TENSILE STRENGTH AT BREAK (min)                     | TD* | ASTM D-882  | kg/cm²           | 2000  | 2000  | 2000  | 2000   | 2000  | 2000  | 2000  |
| TENSILE STRENGTH AT BREAK (ITIIII)                  | MD  | A31WI D-002 | (Psi)            | 27000 | 27000 | 27000 | 27000  | 27000 | 25000 | 25000 |
|   | TD  |             | (1 31)           | 28500 | 28500 | 28500 | 28500  | 28500 | 28500 | 28500 |
| ELONGATION AT BREAK (min)                           | MD  | ASTM D-882  |                  | 90    | 105   | 105   | 110  | 115   | 120   | 125   |
| ELONGATION AT BILLAR (ITIIII)                       | TD  | ASTIVID GOZ | %                | 80    | 85    | 85    | 85   | 90    | 90    | 95    |
| LINEAR SHRINKAGE (max)                              | MD  | ASTM D-1204 | %                |       |       |       | 3.0  |       |       |       |
| (30 Minute at 150°C)                                | TD  | A31W D-1204 | /6               |       |       |       | 1.0  |       |       |       |
| MVTR (38° C & 90% RH) (typical)                     |     | ASTM F-1249 | gm/m²/day        | 50    | 45    | 40    | 35   | 30    | 20    | 16    |
| instricted Car Jon Intry (typical)                  |     |             | (gm/100 in²/day) | 3.2   | 2.9   | 2.6   | 2.3  | 2.0   | 1.3   | 1.0   |
| OTR (23°C & 0% RH) (typical)                        |     | ASTM D-3985 | cc/m²/day        | 155   | 130   | 110   | 90   | 80    | 70    | 45    |
| 5(25 25.5%) (cypical)                               |     |             | (cc/100 in²/day) | 10.1  | 8.5   | 7.1   | 5.8  | 5.2   | 4.5   | 2.9   |

<sup>#</sup> The inherent surface tension of the Untreated side of any PET film is a minimum of 42 dyne/cm.

#### **STORAGE & HANDLING**

SELEXIBLE needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from the date of shipment.

#### **FOOD CONTACT**

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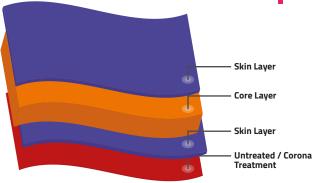
# **F-LAM**BALANCED SHRINKAGE FILM

F-LAM is a transparent BOPET film. The film is either both sides Untreated or one side Corona Treated with other side Untreated.

# **KEY FEATURES:**

- Good clarity
- Balanced Shrinkage
- Excellent machinability & handling properties
- Corona treatment improves bonding





### **APPLICATION:**

- Thermal Lamination
- Document Lamination

|  |  | TVDICAL VALUES |                                |       |       |       |       |       |       |       |       |       |
|--|--|----------------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PROPERTIES   |  | TEST METHOD    | EST METHOD UNIT TYPICAL VALUES |       |       |       |       |       |       |       |       |       |
| THICKNESS  |  | Internal       | Micron                         | 8     | 10    | 11    | 12    | 15    | 19    | 23    | 36    | 50    |
| THERNESS   |  | internal       | (Gauge)                        | 32    | 40    | 44    | 48    | 60    | 76    | 92    | 144   | 200   |
| YIELD  |  | Internal       | m² / kg                        | 89.28 | 71.42 | 64.93 | 59.52 | 47.62 | 37.59 | 31.05 | 19.84 | 14.28 |
| TILLD  |  | internal       | in² /lb                        | 62901 | 50318 | 45745 | 41934 | 33550 | 26483 | 21876 | 13978 | 10060 |
| SURFACE TENSION (min) #<br>(Corona side)                 |  | ASTM D-2578    | dyne/cm                        |       |       |       |       | 52    | 2     |       |       |       |
| COF (max)  |  | ASTM D-1894    | _                              | 0.45  | 0.45  | 0.45  | 0.45  | 0.45  | 0.45  | 0.45  | 0.45  | 0.45  |
| (Untreated to Untreated)<br>(Untreated to Corona Treated | d)   | A3110 1034     |                                | 0.50  | 0.50  | 0.50  | 0.50  | 0.45  | 0.45  | 0.45  | 0.45  | 0.45  |
| HAZE (max)   |  | ASTM D-1003    | %                              | 3.5   | 3.5   | 3.5   | 3.5   | 4.0   | 4.0   | 4.5   | 4.5   | 5.0   |
|  | MD   |                |                                | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1750  | 1750  |
| TENSILE STRENGTH   | TD   | ASTM D-882     | kg/cm²                         | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  | 2000  |
| AT BREAK (min)   | MD   | ASTM D-882     | (Psi)                          | 27000 | 27000 | 27000 | 27000 | 27000 | 27000 | 27000 | 25000 | 25000 |
|  | TD   |                | (1 31)                         | 28500 | 28500 | 28500 | 28500 | 28500 | 28500 | 28500 | 28500 | 28500 |
| ELONGATION AT BREAK                                      | MD   | ASTM D-882     |                                | 90    | 100   | 100   | 105   | 105   | 110   | 115   | 120   | 125   |
| ELONG/MONTH BREAK  | TD   | 7/5111/10 002  | %                              | 80    | 80    | 85    | 85    | 85    | 85    | 90    | 90    | 95    |
| LINEAR SHRINKAGE (max)                                   | MD   | ASTM D-1204    | %                              | 4.0   |       |       |       |       |       |       |       |       |
| (30 Minute at 150°C)                                     | TD   | A31MID 1204    | 70                             |       |       |       |       | 2.0   | 0     |       |       |       |
| MVTR (38° C & 90% RH) (typi                              | cal)   | ASTM F-1249    | gm/m²/day                      | 50    | 50    | 45    | 45    | 40    | 35    | 30    | 20    | 16    |
| WWTM (30 C & 30 MM) (typi                                | (gm/100 in²/day) 3.2 3.2 2.9 2.9 2.6 2.3 2.0 |                |                                | 1.3   | 1.0   |       |       |       |       |       |       |       |
| OTR (23°C & 0% RH) (typical)                             |  | ASTM D-3985    | cc/m²/day                      | 155   | 155   | 130   | 130   | 110   | 90    | 80    | 70    | 45    |
| 5 (25 C & 0.0 Tit 1) (typical)                           |  |                | (cc/100 in²/day)               | 10.1  | 10.1  | 8.5   | 8.5   | 7.1   | 5.8   | 5.2   | 4.5   | 2.9   |

<sup>#</sup> The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

#### **STORAGE & HANDLING**

SELEXIBLE needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from the date of shipment.

#### **FOOD CONTACT**

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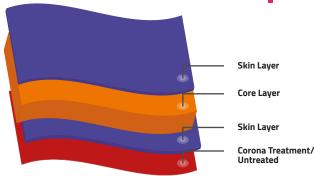
# **F-UVP**UV STABILIZED FILM

F-UVP is a transparent UV stabilized BOPET film. The film is one side Corona Treated with one side Untreated or both sides Untreated.

### **KEY FEATURES:**

- High clarity
- Excellent dimensional stability & machinability
- Outstanding exterior stability when exposed to sunlight





# **APPLICATION:**

- Flexible packaging
- Labels to protect printing from UV rays
- Agricultural purposes
- UV protective packaging

| PROPERTIES  |                                | TEST METHOD  | UNIT             | TYPICAL VALUES |       |         |       |       |       |  |
|---|--------------------------------|--------------|------------------|----------------|-------|---------|-------|-------|-------|--|
|   |                                |              | Micron           | 12             | 15    | 23      | 38    | 45    | 50    |  |
| THICKNESS   |                                | Internal     | (Gauge)          | 48             | 60    | 92      | 152   | 180   | 200   |  |
| YIELD   |                                | m² / kg      |                  | 59.52          | 47.62 | 31.05   | 18.79 | 15.87 | 14.28 |  |
| FIELD   |                                | internal     | in² /lb          | 41934          | 33550 | 21876   | 13238 | 11180 | 10060 |  |
| SURFACE TENSION (min) #<br>(Corona Treated surface)     |                                | ASTM D-2578  | dyne/cm          |                |       | <u></u> | 52    |       |       |  |
| COF (max)   |                                |              |                  | 0.45           | 0.45  | 0.45    | 0.40  | 0.40  | 0.40  |  |
| (Untreated to Untreated)<br>(Untreated to Corona Treate | d)                             | ASTM D-1894  | -                | 0.50           | 0.50  | 0.50    | 0.45  | 0.45  | 0.45  |  |
| HAZE (max)  |                                | ASTM D-1003  | %                | 4.0            | 4.0   | 4.5     | 5.0   | 5.0   | 5.5   |  |
| UV Absorbance (min) (at 355                             | UV Absorbance (min) (at 355nm) |              | %                | 1.4            | 1.5   | 1.8     | 1.8   | 1.8   | 1.8   |  |
|   | MD                             | ASTM D-882   | kg/cm²           | 1900           | 1900  | 1900    | 1750  | 1750  | 1750  |  |
| TENSILE STRENGTH  | TD                             |              |                  | 2000           | 2000  | 2000    | 2000  | 2000  | 2000  |  |
| AT BREAK (min)  | MD                             |              | (Psi)            | 27000          | 27000 | 27000   | 25000 | 25000 | 25000 |  |
|   | TD                             |              | (1 31)           | 28500          | 28500 | 28500   | 28500 | 28500 | 28500 |  |
| ELONGATION AT BREAK                                     | MD                             | ASTM D-882   |                  | 105            | 105   | 115     | 120   | 125   | 125   |  |
| (min)   | TD                             | ASTIVID-002  | %                | 85             | 85    | 90      | 90    | 90    | 95    |  |
| LINEAR SHRINKAGE (max)                                  | MD                             | ASTM D-1204  | %                | 3.0            |       |         |       |       |       |  |
| (30 Minute at 150°C)                                    | TD                             | A31WID-1204  | 76               |                |       | 1       | .0    |       |       |  |
| MVTD /200 C 8 00% DUV/+                                 | :!\                            | ASTM F-1249  | gm/m²/day        | 45             | 40    | 30      | 20    | 18    | 16    |  |
| MVTR (38° C & 90% RH) (typi                             | icai)                          | 7.51111 1245 | (gm/100 in²/day) | 2.9            | 2.6   | 2.0     | 1.3   | 1.2   | 1.0   |  |
| OTR (23°C & 0% RH) (typical                             | )                              | ASTM D-3985  | cc/m²/day        | 130            | 110   | 80      | 70    | 55    | 45    |  |
|   |                                |              | (cc/100 in²/day) | 8.5            | 7.1   | 5.2     | 4.5   | 3.5   | 2.9   |  |

<sup>#</sup> The inherent surface tension of the untreated side of any PET film is a minimum of 42 dyne/cm.

#### **STORAGE & HANDLING**

SELEXIBLE needs to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources, or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from the date of shipment.

#### FOOD CONTACT

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#### **DISCLAIMER**

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Manufacturing Facilities at No. 16 Fengxiang Rd, Wujin District, Changzhou City, Jiangsu, China sale@selexible.cn

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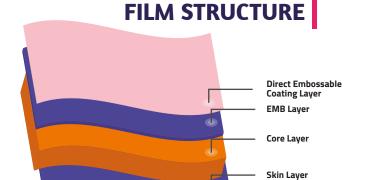


# **F-EMB**DIRECT EMBOSSABLE FILM

F-EMB is a Co-extruded transparent BOPET film. The Film having one side direct Embossable layer and other side Untreated.

# **KEY FEATURES:**

- Excellent gloss & clarity
- Embossable layer provide deep & sharp impression without any offline coating
- Excellent machinability
- Excellent chemical resistant



# **APPLICATION:**

- Direct Embossing
- Holographic Application
- Metallization & gift wrap

| PROPERTIES  | TEST METHOD       | UNIT             | TYPICAL | VALUES |  |  |
|---|-------------------|------------------|---------|--------|--|--|
| THICKNESS   | Internal          | Micron           | 9       | 13     |  |  |
| THICKNESS   | internal          | (Gauge)          | 36      | 52     |  |  |
| YIELD   | Internal          | m² / kg          | 79.36   | 54.94  |  |  |
| TILLD   | internal          | in² /lb          | 55912   | 38707  |  |  |
| SURFACE TENSION (min) #<br>(Embossable side)      | ASTM D-2578       | dyne/cm          | 4       | 0      |  |  |
| COF (max)<br>(Embossable side to Embossable side) |                   |                  | 0.70    | 0.70   |  |  |
| (Other sideto the other side)                     | ASTM D-1894       | -                | 0.50    | 0.50   |  |  |
| HAZE (max)  | ASTM D-1003       | %                | 2.5     | 3.0    |  |  |
| М   | ASTM D-882        | kg/cm²           | 1700    | 1700   |  |  |
| TENSILE STRENGTH AT BREAK (min)                   |                   |                  | 1900    | 1900   |  |  |
| MI  | ) A311VI D-862    | (Psi)            | 24200   | 24200  |  |  |
| TE  | 1                 |                  | 27000   | 27000  |  |  |
| ELONGATION AT BREAK (min)                         | ) ASTM D-882      |                  | 90      | 100    |  |  |
| TI  |                   | %                | 80      | 85     |  |  |
| LINEAR SHRINKAGE (max) MI                         | ) ASTM D-1204     | %                | 3.0     |        |  |  |
| (30 Minute at 150°C)                              |                   | /6               | 1.0     |        |  |  |
| W.V.T.R. (38° C & 90% RH) (typical)               | ASTM F-1249       | gm/m²/day        | 50      | 45     |  |  |
| vv.v.1.π. (50° C α 90% κπ) (typical)              | 7.5 12.13         | (gm/100 in²/day) | 3.2     | 2.9    |  |  |
| OTR (23°C & 0% RH) (typical)                      | ASTM D-3985       | cc/m²/day        | 155     | 130    |  |  |
| OTT (23 C & O/6 KH) (typical)                     | 7.51111 5 5 5 6 5 | (cc/100 in²/day) | 10.1    | 8.5    |  |  |

<sup>#</sup> The inherent surface tension of the untreated side of any Pet film is minimum 42 dyne/cm

#### **STORAGE & HANDLING**

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#### **FOOD CONTACT**

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#### **DISCLAIMER**

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# Selexible



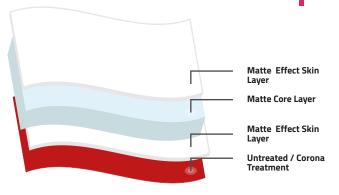
# F-MSH SUPER MATT POLYESTER FILM

F-MSH is a Super Matt effect BOPET film. The Film is both side untreated or one side corona treated.

# **KEY FEATURES:**

- Super matt effect
- One side corona treatment provide good adhesion with inks & adhesives
- Excellent machinability & handling properties
- Good stiffness

# FILM STRUCTURE



# **APPLICATION:**

- Thermal lamination
- Label application
- Conversion application
- Board lamination

| PROPERTIES                                       | TEST METHOD       | UNIT             |       | TYPICAL VALUES |       |  |  |
|--|-------------------|------------------|-------|----------------|-------|--|--|
| THICKNESS  | Internal          | Micron           | 12    | 19             | 23    |  |  |
| ITHICKNESS                                       | internai          | (Gauge)          | 48    | 76             | 92    |  |  |
| YIELD  | Internal          | m² / kg          | 59.52 | 37.59          | 31.05 |  |  |
| TILLD  | internal          | in² /lb          | 41934 | 26483          | 21876 |  |  |
| SURFACE TENSION (min) #<br>(Corona treated Side) | ASTM D-2578       | dyne/cm          | 52    |                |       |  |  |
| COF (max)<br>(One side to the other side)        | ASTM D-1894       | -                | 0.50  |                |       |  |  |
| HAZE (min)                                       | ASTM D-1003       | %                | 70    | 75             | 85    |  |  |
| GLOSS AT 45° angle                               | ASTM D-2457       | -                | 28    | 26             | 25    |  |  |
|  | MD                | kg/cm²           | 1500  | 1500           | 1400  |  |  |
| TENSILE STRENGTH AT BREAK (min)                  | TD ASTM D-882     |                  | 1900  | 1900           | 1900  |  |  |
| TENSILE STRENGTH AT BREAK (MIII)                 | MD ASTM D-882     | (Psi)            | 21400 | 21400          | 19900 |  |  |
|  | TD                |                  | 27000 | 27000          | 27000 |  |  |
| ELONGATION AT BREAK (min)                        | MD ASTM D-882     |                  | 110   | 120            | 130   |  |  |
|  | TD ASTIVI D-002   | %                | 75    | 80             | 85    |  |  |
| LINEAR SHRINKAGE (max)                           | MD ASTM D-1204    | %                | 3.0   |                |       |  |  |
| (30 Minute at 150°C)                             | TD A31W1D-1204    | /6               | 1.0   |                |       |  |  |
| W.V.T.R. (38° C & 90% RH) (typical)              | ASTM F-1249       | gm/m²/day        | 45    | 35             | 30    |  |  |
| vv.v.1.R. (36 C & 30% RH) (typical)              |                   | (gm/100 in²/day) | 2.9   | 2.3            | 2.0   |  |  |
| OTR (23°C & 0% RH) (typical)                     | ASTM D-3985       | cc/m²/day        | 130   | 90             | 80    |  |  |
| OTT (25 C & O & TOT) (typical)                   | 7.5.141 5 5 5 6 5 | (cc/100 in²/day) | 8.5   | 5.8            | 5.2   |  |  |

<sup>#</sup> The inherent surface tension of the untreated side of any Pet film is minimum 42 dyne/cm

#### **STORAGE & HANDLING**

SELEXIBLE need to be stored in a warehouse below 35°C (95°F) and should not be exposed to direct sunlight, bright light sources or high humidity. If the material is stored in the recommended conditions, SELEXIBLE is suitable for use within 270 days from date of shipment.

### FOOD CONTACT

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# Selexible



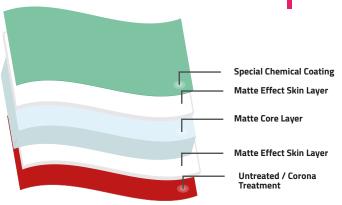
# F-MSU SPECIAL CHEMICAL COATED SUPER MATT FILM

F-MSU is a Super Matt effect BOPET film. The Film is one side Special Chemical coated and other side Untreated or Corona treated.

# **KEY FEATURES:**

- Super Matt effect
- One side chemical coating provide excellent adhesion with inks & adhesives
- Excellent machinability & handling properties
- Good stiffness





# **APPLICATION:**

- Thermal lamination
- Label application
- Conversion application
- Board lamination

| PROPERTIES  | TEST METHOD   | UNIT             |       | TYPICAL VALUES |       |  |
|---|---------------|------------------|-------|----------------|-------|--|
| THICKNESS   | Internal      | Micron           | 12    | 19             | 23    |  |
| INICKNESS   | internal      | (Gauge)          | 48    | 76             | 92    |  |
| YIELD   | Internal      | m² / kg          | 59.52 | 37.59          | 31.05 |  |
| TILES   | internal      | in² /lb          | 41934 | 26483          | 21876 |  |
| SURFACE TENSION (min) #<br>(Special Chemical Coated Side) | ASTM D-2578   | dyne/cm          | 48    |                |       |  |
| COF (max)<br>(One side to the other side)                 | ASTM D-1894   | -                | 0.45  | 0.40           | 0.40  |  |
| HAZE (min)  | ASTM D-1003   | %                | 70    | 75             | 85    |  |
| GLOSS AT 45° angle  | ASTM D-2457   | -                | 28    | 26             | 25    |  |
| N   |               | kg/cm²           | 1500  | 1500           | 1400  |  |
| TENSILE STRENGTH AT BREAK (min)                           | ASTM D-882    |                  | 1900  | 1900           | 1900  |  |
| TENSILE STRENGTH AT BREAK (ITIIII)                        | ASTM D-882    | (Psi)            | 21400 | 21400          | 19900 |  |
| Т   | )             |                  | 27000 | 27000          | 27000 |  |
| ELONGATION AT BREAK (min)                                 | D ASTM D-882  | %                | 110   | 120            | 130   |  |
| T T   |               |                  | 75    | 80             | 85    |  |
| LINEAR SHRINKAGE (max) N                                  | D ASTM D-1204 | %                | 3.0   |                |       |  |
| (30 Minute at 150°C)                                      |               | 70               | 1.0   |                |       |  |
| W.V.T.R. (38° C & 90% RH) (typical)                       | ASTM F-1249   | gm/m²/day        | 45    | 35             | 30    |  |
| vv.v.i.n. (36 C & 30 / KH) (typital)                      |               | (gm/100 in²/day) | 2.9   | 2.3            | 2.0   |  |
| OTR (23°C & 0% RH) (typical)                              | ASTM D-3985   | cc/m²/day        | 130   | 90             | 80    |  |
| OTT (25 COOM IN 1) (cypical)                              | 7.51 5 5565   | (cc/100 in²/day) | 8.5   | 5.8            | 5.2   |  |

<sup>#</sup> The inherent surface tension of the untreated side of any Pet film is minimum 42 dyne/cm

#### **STORAGE & HANDLING**

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#### **FOOD CONTACT**

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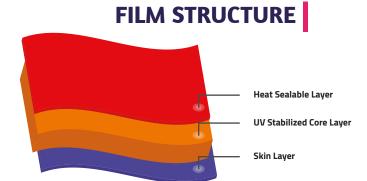


# F-UVF **UV STABILIZED HEAT SEALABLE BOPET FILM**

F-UVF is a co-extruded UV stabilized polyester film. The film is one side sealable surface other side Untreated.

# **KEY FEATURES:**

- Very good clarity & transparency
- Excellent machinability & handling propertie
- Outstanding Exterior stability when exposed to sunlight



### **APPLICATION:**

• Film is suitable for FRP application

| PROPERTIES   |             | TEST METHOD | UNIT             | TYPICAL VALUES |           |           |  |
|--|-------------|-------------|------------------|----------------|-----------|-----------|--|
| THICKNESS  |             | Internal    | Micron           | 15             | 23        | 36        |  |
| THICKNESS  |             | internal    | (Gauge)          | 60             | 92        | 144       |  |
| YIELD  |             | Internal    | m² / kg          | 47.6           | 31        | 19.84     |  |
| TIELD  |             | mema        | in² /lb          | 33550          | 21876     | 13978     |  |
| SURFACE TENSION (min) #<br>(Heat Sealable Side)      |             | ASTM D-2578 | dyne/cm          |                | 48        |           |  |
| COF (max)  |             | ASTM D-1894 | _                | 0.60           | 0.60      | 0.60      |  |
| (One Side to Other Side)<br>(Untreated to Untreated) |             |             |                  | 0.50           | 0.50      | 0.50      |  |
| HAZE (max)   |             | ASTM D-1003 | %                | 4.5            | 5.0       | 5.5       |  |
| UV Absorbance @ 355 nm (min)                         |             | Internal    | %                | 1.5            | 1.8       | 1.8       |  |
|  | MD          | ASTM D-882  | kg/cm²           | 1700           | 1600      | 1600      |  |
| TENSILE STRENGTH AT BREAK (min)                      | TD          |             |                  | 1900           | 2000      | 2000      |  |
| TENSILE STRENGTH AT BREAK (TIIII)                    | MD          |             | (Psi)            | 24200          | 22700     | 22700     |  |
|  | TD          |             |                  | 28500          | 28500     | 28500     |  |
| ELONGATION AT BREAK (min)                            | MD          | ASTM D-882  | %                | 115            | 120       | 130       |  |
| ELONGATION AT BREAK (ITIIII)                         | TD          |             |                  | 85             | 90        | 95        |  |
| HEAT SEAL TEMP. RANGE (service temp.)                | FIN<br>SEAL | Internal    | °C               | 110 - 200      | 110 - 200 | 120 - 200 |  |
| SEAL STRENGTH<br>(120°C, 1 sec, 2.8 bar)             | FIN<br>SEAL | ASTM D-882  | gms/25mm         | 600            | 800       | 1100      |  |
| LINEAR SHRINKAGE (max)                               | MD          |             |                  | 3.0            |           |           |  |
| (30 Minute at 150°C)                                 | TD          | ASTM D-1204 | %                | 1.0            |           |           |  |
| W.V.T.R. (38° C & 90% RH) (typical)                  |             | ASTM F-1249 | gm/m²/day        | 40             | 30        | 20        |  |
| vv.v.i.n. (50°C & 90% KH) (typical)                  |             | 7.5 12.15   | (gm/100 in²/day) | 2.6            | 2.0       | 1.3       |  |
| OTR (23°C & 0% RH) (typical)                         |             | ASTM D-3985 | cc/m²/day        | 110            | 80        | 70        |  |
| 311. (23 C & 0 % 11 1) (typical)                     |             |             | (cc/100 in²/day) | 71.0           | 5.2       | 4.5       |  |

<sup>#</sup> The inherent surface tension of the untreated side of any Pet film is minimum 42 dyne/cm

#### **STORAGE & HANDLING**

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