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Clarity report – Acrylic Sheet

1. SAMPLE INFORMATION

Product Name	Acrylic Transparent Sheet
Sample Description	Clear cast acrylic sheet (PMMA)
Thickness	30 mm
Application	Aquarium / Fish Tank Window
Material Grade	100% Virgin PMMA (Imported Raw Material)
Production Method	Cell Cast
Sample Received	Oct 14, 2024
Test Period	Oct 14, 2024 - Oct 21, 2024

2. TEST REQUESTED

To determine the optical transparency (visible light transmittance) of a 30mm thick cast acrylic sheet used for aquarium applications.

3. TEST METHOD(S)

Test Item	Test Standard / Method
Visible Light Transmittance	ISO 13468-1 / ASTM D1003
Visual Appearance	Visual Inspection (ISO 7823-1)

4. TEST RESULTS

Test Parameter	Test Result	Unit	Requirement	Conclusion
Light Transmittance (Total)	92.7%	%	≥ 90% (Clear PMMA standard)	PASS
Visual Appearance	No haze, no yellowing, no defects	–	Clear, defect-free surface	PASS

Note: Measurement conducted on spectrophotometer in the range of 400 – 700 nm. Surface cleaned prior to testing.

5. CONCLUSION

The 30mm thick cast acrylic sheet submitted by our company demonstrates a total light transmittance of 92.7%, which is consistent with the performance of high-quality transparent PMMA. The material is visually clear, colorless, and free from optical defects or haze.

Result: The sample is deemed suitable for use in high-clarity aquarium and fish tank applications, where excellent transparency and aesthetic quality are required.

6. REMARKS

- Results relate only to the items tested.
- This report does not represent a certification of the whole batch unless batch sampling was performed.
- This report is issued at the request of the client for informational/technical documentation purposes.