

CU-1 - Specifications

Description

This material has high transparency (water clear) and is easy to process and polish. It has very high reproduction accuracy and is also UV resistant. Additionally, this material is mercury free.

Applications

- Commercial product testing
- Functional assembly
- Public surveys
- Field testing
- Visual evaluation
- Aesthetic evaluation
- Jewelry, art and decoration parts

Thermal and Specific Properties*

Glass transition temperature ASTM E1545	216°F
Coefficient of thermal expansion ASTM D-1546	44x10 ⁻⁶ in./in./°F
Shrinkage	0.15%
Maximum casting thickness	2 in.

Mechanical Properties*

	@23°C
Hardness ASTM D-2240	84 Shore D/1
Flexural modulus ASTM D-790	382,000 psi
Flexural strength ASTM D-790	20,000 psi
Tensile modulus ASTM D-638	373,000 psi
Tensile strength ASTM D-638	11,000 psi
Elongation at break ASTM D-638	10%
Compressive modulus ASTM D-695	269,000 psi
Compressive strength ASTM D-638	13,000 psi
Impact strength, Unnotched Izod ASTM D-256	> 7.9 ft.-lb.-f/in.2

*Average values obtained on standardized specimens/postcured 4hrs @80°C + 16hrs @100°C. 12x1x3/16 in. rectangular bar cast into 70°C silicone mold postcured per above.

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