

Plaskolite Optix® CP - 1000 I High Impact Grade Acrylic Resin

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Impact Modified, Molded , Acrylic, Optical Grade, Molded

Material Notes:

OPTIX® impact-modified grades offer 7 to 10 times the impact resistance of general purpose polymers while maintaining optical clarity. Information provided by Plaskolite, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plaskolite-Optix-CP-1000-I-High-Impact-Grade-Acrylic-Resin.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ASTM D-792
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D-955
Melt Flow	2.8 g/10 min @Load 3.80 kg, Temperature 230 °C	2.8 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Tensile Strength	42.1 MPa	6100 psi	ASTM D-638
Elongation at Break	37 %	37 %	ASTM D-638
Modulus of Elasticity	2.03 GPa	295 ksi	ASTM D-638
Flexural Strength	61.4 MPa	8900 psi	ASTM D-790
Izod Impact, Notched	0.587 J/cm @Thickness 6.35 mm	1.10 ft-lb/in @Thickness 0.250 in	ASTM D-256
Gardner Impact	5.54 J @Thickness 3.17 mm	4.08 ft-lb @Thickness 0.125 in	Falling Weight; ASTM D-3029 GB

Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C	66.7 µin/in-°F	ASTM D-696
Maximum Service Temperature, Air	90.0 °C	194 °F	UL-746 ABC
Deflection Temperature at 1.8 MPa (264 psi)	77.8 °C	172 °F	ASTM D-648
Vicat Softening Point	108 °C	227 °F	ASTM D-1525
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Haze	<= 1.8 %	<= 1.8 %	ASTM D-1003
Transmission, Visible	90.8 %	90.8 %	ASTM D-1003

Descriptive Properties	Value	Comments
3-Year Weathering	Listed	SAE J 576 (AMECA)

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