

Plaskolite Optix® CA - 2000 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-CA-2000-High-Impact-Grade-Acrylic-Resin.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 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	2.0 g/10 min @Load 3.80 kg, Temperature 230 °C	2.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Tensile Strength	38.6 MPa	5600 psi	ASTM D-638
Elongation at Break	40 %	40 %	ASTM D-638
Modulus of Elasticity	1.86 GPa	270 ksi	ASTM D-638
Flexural Strength	66.2 MPa	9600 psi	ASTM D-790
Izod Impact, Notched	1.07 J/cm @Thickness 6.35 mm	2.00 ft-lb/in @Thickness 0.250 in	ASTM D-256
Gardner Impact	9.04 J @Thickness 3.17 mm	6.67 ft-lb @Thickness 0.125 in	Falling Weight; ASTM D-3029 GB

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 µm/m-°C	33.3 µin/in-°F	ASTM D-696
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	ASTM D-648
Vicat Softening Point	100 °C	212 °F	ASTM D-1525

Optical Properties	Metric	English	Comments
Haze	<= 3.0 %	<= 3.0 %	ASTM D-1003
Transmission, Visible	91 %	91 %	ASTM D-1003

Optical Properties

Metric

English

Comments

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