

Plaskolite Optix® PL-30 Acrylic Resin (discontinued **)

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

Material Notes:

Injection molding and extrusion grade pellets. Highest molecular weight and heat resistance of Optix® line with exceptional mold release. Data provided by the manufacturer, Plaskolite, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plaskolite-Optix-PL-30-Acrylic-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Water Absorption	0.30 %	0.30 %	ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	48 hrs; ASTM D955
Melt Flow	3.0 g/10 min	3.0 g/10 min	Condition I; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	95	95	Method A; ASTM D785
Tensile Strength, Yield	72.0 MPa	10400 psi	ASTM D638
Tensile Modulus	3.00 GPa	435 ksi	ASTM D638
Flexural Yield Strength	110 MPa	16000 psi	ASTM D790
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	54.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature -18.0 - 38.0 °C	30.0 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature -0.400 - 100 °F	ASTM D696
Specific Heat Capacity	1.50 J/g-°C	0.359 BTU/lb-°F	
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft ² -°F	ASTM C177
Melting Point	157 °C	315 °F	Flow temperature; ASTM D569
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	ASTM D648
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
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Refractive Index Optical Properties	1.49 Metric	1.49 English	n_D; ASTM D542 Comments
Transmission, Visible	92 %	92 %	ASTM D1003

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.7 @Frequency 60 Hz	3.7 @Frequency 60 Hz	ASTM D150
Dielectric Strength	18.0 kV/mm	457 kV/in	ASTM D149
Dissipation Factor	0.050 @Frequency 60 Hz	0.050 @Frequency 60 Hz	ASTM D150

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