

Plaskolite Optix® PL-150 Acrylic Resin (discontinued **)

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

Material Notes:

Injection/extrusion pellets.Data provided by the manufacturer, Plaskolite, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plaskolite-Optix-PL-150-Acrylic-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 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	16 g/10 min	16 g/10 min	Condition I; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	Method A; ASTM D785
Tensile Strength, Yield	66.0 MPa	9570 psi	ASTM D638
Tensile Modulus	2.90 GPa	421 ksi	ASTM D638
Flexural Yield Strength	103 MPa	14900 psi	ASTM D790
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	72.0 µm/m-°C	40.0 µin/in-°F	ASTM D696
	@Temperature -18.0 - 38.0 °C	@Temperature -0.400 - 100 °F	
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	138 °C	280 °F	Flow temperature; ASTM D569
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C	180 °F	ASTM D648
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	n_D; ASTM D542

Optical Properties	Metric	English	Comments
Dielectric Constant	3.7	3.7	ASTM D150
Dielectric Strength	18.0 kV/mm	457 kV/in	ASTM D149
Dissipation Factor	0.040	0.040	ASTM D150

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