

Plaskolite West Optix® CP - 51 General Purpose Acrylic Resin

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

Material Notes:

Generally unaffected by alkalis, hydrocarbons, non-oxidizing acids, and salt water. Transparent, translucent, opaque, and custom colors in various grades of melt flow rate and heat resistance are available. Information provided by Plaskolite West, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plaskolite-West-Optix-CP-51-General-Purpose-Acrylic-Resin.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 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	14 g/10 min @Load 3.80 kg, Temperature 230 °C	14 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Tensile Strength	55.8 MPa	8100 psi	ASTM D-638
Elongation at Break	2.6 %	2.6 %	ASTM D-638
Modulus of Elasticity	2.89 GPa	419 ksi	ASTM D-638
Flexural Strength	102 MPa	14800 psi	ASTM D-790
Izod Impact, Notched	0.160 J/cm @Thickness 6.35 mm	0.300 ft-lb/in @Thickness 0.250 in	ASTM D-256
Gardner Impact	0.226 J @Thickness 3.17 mm	0.167 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
Maximum Service Temperature, Air	85.0 °C	185 °F	UL-746 ABC
Deflection Temperature at 1.8 MPa (264 psi)	75.6 °C	168 °F	ASTM D-648
Vicat Softening Point	93.9 °C	201 °F	ASTM D-1525
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Haze	<= 1.0 %	<= 1.0 %	ASTM D-1003
Transmission, Visible	92 %	92 %	ASTM D-1003

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