

Plaskolite West Optix® CP - 81 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-81-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	2.2 g/10 min @Load 3.80 kg, Temperature 230 °C	2.2 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Tensile Strength	67.6 MPa	9800 psi	ASTM D-638
Elongation at Break	3.4 %	3.4 %	ASTM D-638
Modulus of Elasticity	3.03 GPa	440 ksi	ASTM D-638
Flexural Strength	118 MPa	17100 psi	ASTM D-790
Izod Impact, Notched	0.187 J/cm @Thickness 6.35 mm	0.350 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	90.0 °C	194 °F	UL-746 ABC
Deflection Temperature at 1.8 MPa (264 psi)	95.6 °C	204 °F	ASTM D-648
Vicat Softening Point	102 °C	216 °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

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

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