

Plaskolite West Optix® CA - 75 UVT 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-CA-75-UVT-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	3.2 g/10 min @Load 3.80 kg, Temperature 230 °C	3.2 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Tensile Strength	71.0 MPa	10300 psi	ASTM D-638
Elongation at Break	4.2 %	4.2 %	ASTM D-638
Modulus of Elasticity	3.65 GPa	529 ksi	ASTM D-638
Flexural Strength	121 MPa	17600 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	30.0 µm/m-°C	16.7 µin/in-°F	ASTM D-696
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	ASTM D-648
Vicat Softening Point	113 °C	235 °F	ASTM D-1525

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

Transmission Visible Optical Properties	Metric @ Thickness 3.17 mm	English @ Thickness 0.125 in	Luminous: ASTM D-1003 Comments
UV Transmittance	49.5 % @ Thickness 3.17 mm, Wavelength 270 nm	49.5 % @ Thickness 0.125 in, Wavelength 270 nm	ASTM D-1003
	88.5 % @ Thickness 3.17 mm, Wavelength 300 nm	88.5 % @ Thickness 0.125 in, Wavelength 300 nm	ASTM D-1003

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