

## Plaskolite Optix® CP - 61 General Purpose Acrylic Resin

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

### Material Notes:

OPTIX® general purpose acrylics are available in a variety of performance grades that offer varying melt flow rates, heat resistance, color/opacity and gloss levels. Information provided by Plaskolite, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plaskolite-Optix-CP-61-General-Purpose-Acrylic-Resin.php](http://www.lookpolymers.com/polymer_Plaskolite-Optix-CP-61-General-Purpose-Acrylic-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in <sup>3</sup>	ASTM D-792
Water Absorption	0.30 %	0.30 %	ASTM D-570
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM D-955
Melt Flow	5.8 g/10 min @Load 3.80 kg, Temperature 230 °C	5.8 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	86	86	ASTM D-785
Tensile Strength	66.2 MPa	9600 psi	ASTM D-638
Elongation at Break	3.4 %	3.4 %	ASTM D-638
Modulus of Elasticity	3.07 GPa	445 ksi	ASTM D-638
Flexural Strength	89.6 MPa	13000 psi	ASTM D-790
Izod Impact, Notched	0.214 J/cm @Thickness 6.35 mm	0.400 ft-lb/in @Thickness 0.250 in	ASTM D-256
Gardner Impact	0.339 J @Thickness 3.17 mm	0.250 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	50.0 °C	122 °F	UL-746 ABC
Deflection Temperature at 1.8 MPa (264 psi)	91.1 °C	196 °F	ASTM D-648
Vicat Softening Point	102 °C	216 °F	ASTM D-1525

Flammability 18 94 Thermal Properties	HB Metric	HB English	Comments
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Optical Properties	Metric	English	Comments
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Haze	<= 1.0 %	<= 1.0 %	ASTM D-1003
Transmission, Visible	92 %	92 %	ASTM D-1003

Descriptive Properties	Value	Comments
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3-Year Weathering	Listed	SAE J 576 (AMECA)
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## Contact Songhan Plastic Technology Co.,Ltd.

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