

## Plaskolite Optix® CP - 1000 IG High Impact Grade Acrylic Resin

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

### Material Notes:

OPTIX® impact-modified grades offer 7 to 10 times the impact resistance of general purpose polymers while maintaining optical clarity. Information provided by Plaskolite, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plaskolite-Optix-CP-1000-IG-High-Impact-Grade-Acrylic-Resin.php](http://www.lookpolymers.com/polymer_Plaskolite-Optix-CP-1000-IG-High-Impact-Grade-Acrylic-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in <sup>3</sup>	ASTM D-792
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D-955
Melt Flow	2.7 g/10 min @Load 3.80 kg, Temperature 230 °C	2.7 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Tensile Strength	42.1 MPa	6100 psi	ASTM D-638
Elongation at Break	37 %	37 %	ASTM D-638
Modulus of Elasticity	1.86 GPa	270 ksi	ASTM D-638
Flexural Strength	61.4 MPa	8900 psi	ASTM D-790
Izod Impact, Notched	0.641 J/cm @Thickness 6.35 mm	1.20 ft-lb/in @Thickness 0.250 in	ASTM D-256
Gardner Impact	6.33 J @Thickness 3.17 mm	4.67 ft-lb @Thickness 0.125 in	Falling Weight; ASTM D-3029 GB

Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C	66.7 µin/in-°F	ASTM D-696
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	ASTM D-648
Vicat Softening Point	99.4 °C	211 °F	ASTM D-1525

Optical Properties	Metric	English	Comments
Haze	<= 3.0 %	<= 3.0 %	ASTM D-1003
Transmission, Visible	91 %	91 %	ASTM D-1003

Optical Properties

Metric

English

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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