

## Plaskolite West Optix® CP - 51 KC 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-KC-General-Purpose-Acrylic-Resin.php](http://www.lookpolymers.com/polymer_Plaskolite-West-Optix-CP-51-KC-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
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D-955
Melt Flow	21 g/10 min @Load 3.80 kg, Temperature 230 °C	21 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D-1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	ASTM D-785
Tensile Strength	53.8 MPa	7800 psi	ASTM D-638
Elongation at Break	2.6 %	2.6 %	ASTM D-638
Modulus of Elasticity	2.83 GPa	410 ksi	ASTM D-638
Flexural Strength	86.9 MPa	12600 psi	ASTM D-790
Flexural Modulus	2.98 GPa	432 ksi	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
Deflection Temperature at 1.8 MPa (264 psi)	75.6 °C	168 °F	ASTM D-648
Vicat Softening Point	87.8 °C	190 °F	ASTM D-1525

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ASTM D-542
Haze	<= 1.0 %	<= 1.0 %	ASTM D-1003
Transmission, Visible	92 %	92 %	ASTM D-1003

## Contact Songhan Plastic Technology Co.,Ltd.

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