

## Lucite International Diakon® CLG357 Acrylic Polymer

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

**Material Notes:**

Information provided by Lucite International

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lucite-International-Diakon-CLG357-Acrylic-Polymer.php](http://www.lookpolymers.com/polymer_Lucite-International-Diakon-CLG357-Acrylic-Polymer.php)

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.30 %	0.30 %	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	15 g/10 min	15 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85	85	ISO 2039-2
Ball Indentation Hardness	175 MPa	25400 psi	ISO 2039-1
Tensile Strength	75.0 MPa	10900 psi	ISO 527
Elongation at Break	4.0 %	4.0 %	ISO 527
Flexural Strength	105 MPa	15200 psi	ISO 178
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Izod Impact, Notched (ISO)	1.70 kJ/m <sup>2</sup>	0.809 ft-lb/in <sup>2</sup>	ISO 180/1A
Charpy Impact, Notched	0.200 J/cm <sup>2</sup>	0.952 ft-lb/in <sup>2</sup>	ISO 179/1eA
	1.80 J/cm <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear	71.0 µm/m-°C	39.4 µin/in-°F	ASTM E831
Vicat Softening Point	93.0 °C	199 °F	ISO 306B
	98.0 °C	208 °F	ISO 306A
Heat Distortion Temperature	88.0 °C	190 °F	ISO 75A
	91.0 °C	196 °F	ISO 75B
Flammability, UL94	HB	HB	

Thermal Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ISO 489
Haze	0.40 %	0.40 %	ASTM D1003
Transmission, Visible	92 %	92 %	ASTM D1003

## Contact Songhan Plastic Technology Co.,Ltd.

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