

Lucite International Diakon® CLH952L 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-CLH952L-Acrylic-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	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	1.7 g/10 min	1.7 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	92	92	ISO 2039-2
Ball Indentation Hardness	180 MPa	26100 psi	ISO 2039-1
Tensile Strength	83.0 MPa	12000 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Flexural Strength	115 MPa	16700 psi	ISO 178
Flexural Modulus	3.20 GPa	464 ksi	ISO 178
Izod Impact, Notched (ISO)	1.90 kJ/m ²	0.904 ft-lb/in ²	ISO 180/1A
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ISO 179/1eA
	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear	71.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	39.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E831
Vicat Softening Point	103 $\text{Å}^\circ\text{C}$	217 $\text{Å}^\circ\text{F}$	ISO 306B
	109 $\text{Å}^\circ\text{C}$	228 $\text{Å}^\circ\text{F}$	ISO 306A
Heat Distortion Temperature	97.0 $\text{Å}^\circ\text{C}$	207 $\text{Å}^\circ\text{F}$	ISO 75A
	101 $\text{Å}^\circ\text{C}$	214 $\text{Å}^\circ\text{F}$	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

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