

Lucite International Diakon® TD642 Toughened Acrylic Compound

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

Material Notes:

The Diakon® impact PMMA series offer the best combination of impact, chemical and heat resistance and provide rigidity and surface hardness. The grades in the Diakon® series can be processed by injection molding or extrusion. Information provided by Lucite International

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lucite-International-Diakon-TD642-Toughened-Acrylic-Compound.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183
Water Absorption	0.30 %	0.30 %	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	
Melt Flow	2.3 g/10 min	2.3 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	20	20	ISO 2039-2
Tensile Strength	38.0 MPa	5510 psi	ISO 527
Elongation at Break	35 %	35 %	ISO 527
Flexural Modulus	1.39 GPa	202 ksi	ISO 178
Izod Impact, Notched (ISO)	4.50 kJ/m ²	2.14 ft-lb/in ²	ISO 180/1A
Charpy Impact, Notched	0.420 J/cm ²	2.00 ft-lb/in ²	ISO 179/1eA
	4.20 J/cm ²	20.0 ft-lb/in ²	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear	123 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	68.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E831
Vicat Softening Point	83.0 $\text{Å}^\circ\text{C}$	181 $\text{Å}^\circ\text{F}$	ISO 306B
	94.0 $\text{Å}^\circ\text{C}$	201 $\text{Å}^\circ\text{F}$	ISO 306A
Heat Distortion Temperature	80.0 $\text{Å}^\circ\text{C}$	176 $\text{Å}^\circ\text{F}$	ISO 75A
Flammability, UL94	HB	HB	
Glow Wire Test	650 $\text{Å}^\circ\text{C}$	1200 $\text{Å}^\circ\text{F}$	IEC 695-2-1

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ISO 489
Haze	3.0 %	3.0 %	ASTM D1003
Transmission, Visible	89 %	89 %	ASTM D1003

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