

Lucite International Diakon® TD510 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-TD510-Toughened-Acrylic-Compound.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 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	
Melt Flow	3.5 g/10 min	3.5 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	88	88	ISO 2039-2
Tensile Strength	65.0 MPa	9430 psi	ISO 527
Elongation at Break	10 %	10 %	ISO 527
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Izod Impact, Notched (ISO)	2.40 kJ/m ²	1.14 ft-lb/in ²	ISO 180/1A
Charpy Impact, Notched	0.210 J/cm ²	0.999 ft-lb/in ²	ISO 179/1eA
	2.20 J/cm ²	10.5 ft-lb/in ²	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 Åµm/m-Å°C	50.0 Åµin/in-Å°F	ASTM E831
Vicat Softening Point	103 Å°C	217 Å°F	ISO 306B
	112 Å°C	234 Å°F	ISO 306A
Heat Distortion Temperature	93.0 Å°C	199 Å°F	ISO 75A
Flammability, UL94	HB	HB	
Glow Wire Test	650 Å°C	1200 Å°F	IEC 695-2-1

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ISO 489
Haze	2.0 %	2.0 %	ASTM D1003
Transmission, Visible	91 %	91 %	ASTM D1003

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