

Lucite International Diakon® TD625 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-TD625-Toughened-Acrylic-Compound.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 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	5.9 g/10 min	5.9 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	45	45	ISO 2039-2
Tensile Strength	52.0 MPa	7540 psi	ISO 527
Elongation at Break	20 %	20 %	ISO 527
Flexural Modulus	2.20 GPa	319 ksi	ISO 178
Izod Impact, Notched (ISO)	3.20 kJ/m ²	1.52 ft-lb/in ²	ISO 180/1A
Charpy Impact, Notched	0.320 J/cm ²	1.52 ft-lb/in ²	ISO 179/1eA
	3.60 J/cm ²	17.1 ft-lb/in ²	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear	103 Âµm/m-Â°C	57.2 Âµin/in-Â°F	ASTM E831
Vicat Softening Point	89.0 Â°C	192 Â°F	ISO 306B
	96.0 Â°C	205 Â°F	ISO 306A
Heat Distortion Temperature	83.0 Â°C	181 Â°F	ISO 75A
Flammability, UL94	HB	HB	
Glow Wire Test	650 Â°C	1200 Â°F	IEC 695-2-1

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ISO 489
Haze	2.5 %	2.5 %	ASTM D1003
Transmission, Visible	90 %	90 %	ASTM D1003

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