

Lucite International Diakon® ST25H8 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-ST25H8-Toughened-Acrylic-Compound.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Water Absorption	0.32 %	0.32 %	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	0.80 g/10 min	0.80 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	74	74	ISO 2039-2
Tensile Strength	73.0 MPa	10600 psi	ISO 527
Elongation at Break	20 %	20 %	ISO 527
Flexural Strength	100 MPa	14500 psi	ISO 178
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Izod Impact, Notched (ISO)	3.90 kJ/m ²	1.86 ft-lb/in ²	ISO 180/1A
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA
	5.40 J/cm ²	25.7 ft-lb/in ²	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear	100 µm/m-°C	55.6 µin/in-°F	ASTM E831
Vicat Softening Point	103 °C	217 °F	ISO 306B
	114 °C	237 °F	ISO 306A
Heat Distortion Temperature	97.0 °C	207 °F	ISO 75A
Flammability, UL94	HB	HB	

Glow Wire Test Thermal Properties	650 A°C Metric	1200 A°F English	IEC 695-2-1 Comments
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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