

Lucite International Diakon® ST15G8 Toughened Acrylic Polymer

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-ST15G8-Toughened-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	3.9 g/10 min	3.9 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	88	88	ISO 2039-2
Tensile Strength	77.0 MPa	11200 psi	ISO 527
Elongation at Break	8.0 %	8.0 %	ISO 527
Flexural Strength	105 MPa	15200 psi	ISO 178
Flexural Modulus	3.10 GPa	450 ksi	ISO 178
Izod Impact, Notched (ISO)	2.10 kJ/m ²	0.999 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	2.20 J/cm ²	10.5 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.230 J/cm ²	1.09 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 μm/m-°C	44.4 μin/in-°F	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	96.0 °C	205 °F	ISO 75A
Vicat Softening Point	105 °C	221 °F	ISO 306B
	112 °C	234 °F	ISO 306A
Flammability, UL94	HB	HB	
Glow Wire Test	650 °C	1200 °F	IEC 695-2-1

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ISO 489
Haze	1.0 %	1.0 %	ASTM D1003
Transmission, Visible	91.5 %	91.5 %	ASTM D1003

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China