

Lucite International Diakon® ST35G6 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-ST35G6-Toughened-Acrylic-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Water Absorption	0.35 %	0.35 %	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	5.7 g/10 min	5.7 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	44	44	ISO 2039-2
Tensile Strength	47.0 MPa	6820 psi	ISO 527
Elongation at Break	25 %	25 %	ISO 527
Flexural Strength	65.0 MPa	9430 psi	ISO 178
Flexural Modulus	1.90 GPa	276 ksi	ISO 178
Izod Impact, Notched (ISO)	5.80 kJ/m ²	2.76 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	5.80 J/cm ²	27.6 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.560 J/cm ²	2.66 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	110 Âµm/m-Â°C	61.1 Âµin/in-Â°F	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	ISO 75A
Vicat Softening Point	85.0 Â°C	185 Â°F	ISO 306B
	95.0 Â°C	203 Â°F	ISO 306A
Flammability, UL94	HB	HB	

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

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ISO 489
Haze	3.0 %	3.0 %	ASTM D1003
Transmission, Visible	90 %	90 %	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