

Lucite International Diakon® ST25G6 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-ST25G6-Toughened-Acrylic-Polymer.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	8.5 g/10 min	8.5 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	63	63	ISO 2039-2
Tensile Strength	57.0 MPa	8270 psi	ISO 527
Elongation at Break	15 %	15 %	ISO 527
Flexural Strength	75.0 MPa	10900 psi	ISO 178
Flexural Modulus	2.30 GPa	334 ksi	ISO 178
Izod Impact, Notched (ISO)	3.40 kJ/m ²	1.62 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	4.20 J/cm ²	20.0 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.320 J/cm ²	1.52 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	100 Âµm/m-Â°C	55.6 Âµin/in-Â°F	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	87.0 Â°C	189 Â°F	ISO 75A
Vicat Softening Point	89.0 Â°C	192 Â°F	ISO 306B
	97.0 Â°C	207 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	2.0 %	2.0 %	ASTM D1003
Transmission, Visible	91 %	91 %	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