

## Lucite International Diakon® ST25G8 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-ST25G8-Toughened-Acrylic-Polymer.php](http://www.lookpolymers.com/polymer_Lucite-International-Diakon-ST25G8-Toughened-Acrylic-Polymer.php)

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in <sup>3</sup>	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	2.5 g/10 min	2.5 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	71	71	ISO 2039-2
Tensile Strength	63.0 MPa	9140 psi	ISO 527
Elongation at Break	15 %	15 %	ISO 527
Flexural Strength	85.0 MPa	12300 psi	ISO 178
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
Izod Impact, Notched (ISO)	3.60 kJ/m <sup>2</sup>	1.71 ft-lb/in <sup>2</sup>	ISO 180/1A
Charpy Impact Unnotched	4.20 J/cm <sup>2</sup>	20.0 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	0.390 J/cm <sup>2</sup>	1.86 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	100 µm/m-°C	55.6 µin/in-°F	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	ISO 75A
Vicat Softening Point	102 °C	216 °F	ISO 306B
	111 °C	232 °F	ISO 306A
Flammability, UL94	HB	HB	

<b>Glow Wire Test Thermal Properties</b>	<b>650 A°C Metric</b>	<b>1200 A°F English</b>	<b>IEC 695-2-1 Comments</b>
<b>Optical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
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](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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