

## Lucite International Diakon® LG156 Acrylic Bead Polymer, High Transparency

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Optical Grade, Molded

### Material Notes:

PMMA beads offer an exceptional transmission level of 92.5%, an increase of +0.5% in light transmission vs. granular grades - ideal for medical diagnostic devices. Information provided by Lucite International

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lucite-International-Diakon-LG156-Acrylic-Bead-Polymer-High-Transparency.php](http://www.lookpolymers.com/polymer_Lucite-International-Diakon-LG156-Acrylic-Bead-Polymer-High-Transparency.php)

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.30 %	0.30 %	ISO 62
Particle Size	600 Åµm	600 Åµm	Weight Average; Sieve Test
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	16 g/10 min	16 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85	85	ISO 2039-2
Tensile Strength	75.0 MPa	10900 psi	ISO 527
Elongation at Break	4.0 %	4.0 %	ISO 527
Flexural Strength	105 MPa	15200 psi	ISO 178
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Izod Impact, Notched (ISO)	1.70 kJ/m <sup>2</sup>	0.809 ft-lb/in <sup>2</sup>	ISO 180/1A
Charpy Impact Unnotched	1.80 J/cm <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	0.200 J/cm <sup>2</sup>	0.952 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	71.0 Åµm/m-Å°C	39.4 Åµin/in-Å°F	ASTM E831
Deflection Temperature at 0.46 MPa (66 psi)	91.0 Å°C	196 Å°F	ISO 75B
Deflection Temperature at 1.8 MPa (264 psi)	88.0 Å°C	190 Å°F	ISO 75A
Vicat Softening Point	93.0 Å°C	199 Å°F	ISO 306B
	98.0 Å°C	208 Å°F	ISO 306A

Thermal Properties Flammability, UL 94	Metric UL	English UL	Comments
Glow Wire Test	650 Â°C	1200 Â°F	IEC 695-2-1

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ISO 489
Haze	0.40 %	0.40 %	ASTM D1003
Transmission, Visible	92 %	92 %	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