

Lucky IG-840 Acrylic, Injection Grade

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, General Purpose, Molded

Material Notes:

General purpose injection molding grade. May be UV stabilized. General Lucky PMMA qualities: Transparent/elegant appearance, high heat and weather resistance, excellent chemical resistance and coloring capability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lucky-IG-840-Acrylic-Injection-Grade.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955-51
Melt Flow	5.8 g/10 min	5.8 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	93	93	ASTM D785
Tensile Strength, Ultimate	71.0 MPa	10300 psi	ASTM D638
Elongation at Break	3.5 %	3.5 %	ASTM D638
Flexural Yield Strength	122 MPa	17700 psi	ASTM D790
Flexural Modulus	3.30 GPa	479 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	96.0 Â°C	205 Â°F	Heat Distortion Temp
	96.0 Â°C	205 Â°F	Deflection Temp; Load not reported; ASTM D648
Vicat Softening Point	100 Â°C	212 Â°F	ASTM D1525
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.17 mm	@Thickness 0.125 in	

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ASTM D542
Transmission, Visible	92 %	92 %	ASTM D1003

Electrical Properties	Metric	English	Comments
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149

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