

LG Chemical IF870S PMMA, General Purpose Grade for Injection Molding

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

Material Notes:

Highest flowability of all grades
 Features: Excellent transparency and elegance
 Weather resistance and chemical resistance
 Surface hardness and coloring property
 Superior electrical resistance and mechanical properties
 No harm caused
 Applications: Automotive Parts:
 Rear lamp cover
 Turn signal lamp cover
 Indoor lamp cover
 Rear quarter glass
 Automotive badge
 Electric or Electronic Parts:
 LCD light guide plate
 Microwave oven door/front panel
 Cassette door
 VCR cover/front panel
 Car stereo panel
 Dial scale
 Light pipe
 Sheet:
 Signboard
 Showcase
 Light dome
 Aquarium
 Picture frame
 Lighting and Miscellaneous:
 Solid surface
 Lighting cover
 Ornaments
 Watch crystal
 Optical lens
 Piano keyboard
 Information Provided by LG Chem

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-IF870S-PMMA-General-Purpose-Grade-for-Injection-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Water Absorption	0.30 %	0.30 %	24 hours; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955
Melt Index of Compound	23 g/10 min @Load 3.80 kg, Temperature 230 Â°C	23 g/10 min @Load 8.38 lb, Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM D785
Tensile Strength at Break	63.0 MPa	9140 psi	ASTM D638
Elongation at Break	11 %	11 %	ASTM D638
Flexural Strength	128 MPa	18600 psi	ASTM D790
Flexural Modulus	3.431 GPa	497.6 ksi	ASTM D790
Izod Impact, Notched	0.147 J/cm	0.275 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 Âµm/m-Â°C @Temperature 20.0 Â°C	33.3 Âµin/in-Â°F @Temperature 68.0 Â°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	88.0 Â°C	190 Â°F	ASTM D648
Vicat Softening Point	98.0 Â°C	208 Â°F	1 kg; ASTM D1525

Thermal Properties	Metric	English	Comments
Annealing Point	100.0 °C	212 °F	3-5 hours

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ASTM D542
Haze	0.50 % @Thickness 3.20 mm	0.50 % @Thickness 0.126 in	ASTM D1003
Transmission, Visible	93 % @Thickness 3.20 mm	93 % @Thickness 0.126 in	ASTM D1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	4.0 @Frequency 60 Hz	4.0 @Frequency 60 Hz	ASTM D150
Dielectric Strength	20.0 kV/mm	508 kV/in	4kV/s; ASTM D149
Dissipation Factor	0.050 @Frequency 60 Hz	0.050 @Frequency 60 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Processing Temperature	190 - 240 Â°C	374 - 464 Â°F	Injection molding cylinder temperature
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 Â°F	
Drying Temperature	60.0 - 70.0 Â°C	140 - 158 Â°F	
Dry Time	4 - 6 hour	4 - 6 hour	
Injection Pressure	58.84 - 137.3 MPa	8534 - 19910 psi	

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