

LG Chemical IF850 PMMA, General Purpose Grade for Injection Molding

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

Material Notes:

High flowability grade Particularly recommended for complicated profiles or large and thin wall parts
 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-IF850-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	12.3 g/10 min @Load 3.80 kg, Temperature 230 Å°C	12.3 g/10 min @Load 8.38 lb, Temperature 446 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM D785
Tensile Strength at Break	70.0 MPa	10200 psi	ASTM D638
Elongation at Break	13 %	13 %	ASTM D638
Flexural Strength	128 MPa	18600 psi	ASTM D790
Flexural Modulus	3.304 GPa	479.2 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 Åµm/m-Å°C @Temperature 20.0 Å°C	33.3 Åµin/in-Å°F @Temperature 68.0 Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Å°C	194 Å°F	ASTM D648
Vicat Softening Point	100 Å°C	212 Å°F	1 kg; ASTM D1525

Thermal Properties	Metric	English	Comments
Annealing Point	60.0 - 70.0 Å°C	140 - 158 Å°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	200 - 240 Å°C	392 - 464 Å°F	Injection molding cylinder temperature
Mold Temperature	60.0 - 80.0 Å°C	140 - 176 Å°F	
Drying Temperature	60.0 - 70.0 Å°C	140 - 158 Å°F	
Dry Time	4 - 6 hour	4 - 6 hour	
Injection Pressure	58.84 - 137.3 MPa	8534 - 19910 psi	

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