

LG Chemical HI855HS PMMA, Impact Resistant Grade

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Impact Modified, Molded

Material Notes:

Molding granule designed for greater impact strength combined with the outstanding properties of conventional acrylic materials
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-HI855HS-PMMA-Impact-Resistant-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Water Absorption	0.40 %	0.40 %	24 hours; ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Index of Compound	2.0 g/10 min @Load 3.80 kg, Temperature 230 Å°C	2.0 g/10 min @Load 8.38 lb, Temperature 446 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	40	40	ASTM D785
Tensile Strength at Break	32.0 MPa	4640 psi	ASTM D638
Elongation at Break	90 %	90 %	ASTM D638
Flexural Strength	53.0 MPa	7690 psi	ASTM D790
Flexural Modulus	1.363 GPa	197.7 ksi	ASTM D790
Izod Impact, Notched	0.540 J/cm	1.01 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)	77.0 Å°C	171 Å°F	ASTM D648
Vicat Softening Point	87.0 Å°C	189 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	1.5 % @Thickness 3.20 mm	1.5 % @Thickness 0.126 in	ASTM D1003
Transmission, Visible	90 % @Thickness 3.20 mm	90 % @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	3.5 @Frequency 60 Hz	3.5 @Frequency 60 Hz	ASTM D150
Dielectric Strength	15.0 kV/mm	381 kV/in	4kV/s; ASTM D149
Dissipation Factor	0.040 @Frequency 60 Hz	0.040 @Frequency 60 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Processing Temperature	210 - 250 Å°C	410 - 482 Å°F	Injection molding cylinder temperature
Mold Temperature	60.0 - 70.0 Å°C	140 - 158 Å°F	
Drying Temperature	60.0 - 70.0 Å°C	140 - 158 Å°F	
Dry Time	4 - 6 hour	4 - 6 hour	
Injection Pressure	49.0 - 108 MPa	7110 - 15700 psi	

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