

Chi Mei Acryrex® CM-207 PMMA

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

Material Notes:

Features: General Purpose Good Weather Resistance High Gloss High Heat Resistance High Strength Medium Viscosity Uses: Automotive Interior Parts Bathroom Accessories Containers Cosmetics Household Goods Knobs RoHS Compliant Appearance: Clear/Transparent Forms: Pellets Processing Method: Extrusion and Injection Molding Africa & Middle East Asia Pacific Europe Latin America North America South America

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Physical Properties	Metric	English	Comments
Density	0.700 g/cc	0.0253 lb/in ³	Apparent; ASTM D1182
	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Water Absorption	0.30 %	0.30 %	Equilibrium; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955
Melt Flow	8.0 g/10 min @Load 3.80 kg, Temperature 230 °C	8.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85	85	ASTM D785
	@Thickness 6.35 mm	@Thickness 0.250 in	
Tensile Strength, Yield	66.9 MPa	9700 psi	6 mm/min; ASTM D638
	@Thickness 3.18 mm	@Thickness 0.125 in	
Elongation at Break	5.0 %	5.0 %	6 mm/min; ASTM D638
	@Thickness 3.18 mm	@Thickness 0.125 in	
Flexural Strength	97.9 MPa	14200 psi	2.8 mm/min; ASTM D790
	@Thickness 6.35 mm	@Thickness 0.250 in	
Izod Impact, Notched	0.200 J/cm	0.375 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	92.0 °C	198 °F	unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0625 in	ASTM D1525 UL 94

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ASTM D542
Transmission, Visible	92 % @Thickness 3.18 mm	92 % @Thickness 0.125 in	ASTM D1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.7	3.7	ASTM D150
Dielectric Strength	0.787 kV/mm	20.0 kV/in	ASTM D149
Dissipation Factor	0.19	0.19	ASTM D150

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	185 - 200 °C	365 - 392 °F	
Middle Barrel Temperature	210 - 225 °C	410 - 437 °F	
Front Barrel Temperature	200 - 220 °C	392 - 428 °F	
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	
Drying Temperature	75.0 - 80.0 °C @Time 14400 sec	167 - 176 °F @Time 4.00 hour	

Descriptive Properties	Value	Comments
Power Factor	0.5	ASTM D150