

Samsung Cheil Industries Infino® HM-3301GL PC, Glass Filled High Impact

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% Glass Filled

Material Notes:

PC/GF material that is used for electric and electronic parts Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-HM-3301GL-PC-Glass-Filled-High-Impact.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Thickness 3.20 mm	0.0010 - 0.0030 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	7.0 g/10 min @Load 10.0 kg, Temperature 250 °C	7.0 g/10 min @Load 22.0 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	93	93	ASTM D785
Tensile Strength at Break	118 MPa	17100 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	118 MPa	17100 psi	50 mm/min; ASTM D638
Elongation at Break	3.4 %	3.4 %	5 mm/min; ASTM D638
Tensile Modulus	6.37 GPa	925 ksi	5 mm/min; ASTM D638
Flexural Strength	186 MPa	27000 psi	2.8 mm/min; ASTM D790
Flexural Modulus	7.35 GPa	1070 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	1.18 J/cm @Thickness 6.35 mm	2.20 ft-lb/in @Thickness 0.250 in	ASTM D256
	1.57 J/cm @Thickness 3.17 mm	2.94 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	146 °C @Thickness 6.40 mm	295 °F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	136 °C @Thickness 6.40 mm	277 °F @Thickness 0.252 in	ASTM D648

Thermal Properties	Metric	English	Comments
Heat Softening Point	151 °C	304 °F	B/120; ISO R306
Flammability, UL94	V-2	V-2	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-1	V-1	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	
	@Thickness 3.00 - 6.00 mm	@Thickness 0.118 - 0.236 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.3	3.3	STM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.0090	0.0090	STM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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