

Samsung Cheil Industries Infino® SI-3109GL PC, Glass Filled High Impact

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

Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-SI-3109GL-PC-Glass-Filled-High-Impact.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Thickness 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	20 g/10 min @Load 10.0 kg, Temperature 250 Â°C	20 g/10 min @Load 22.0 lb, Temperature 482 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	89	89	ASTM D785
Tensile Strength at Break	47.1 MPa	6830 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	55.9 MPa	8110 psi	50 mm/min; ASTM D638
Elongation at Break	47 %	47 %	5 mm/min; ASTM D638
Tensile Modulus	2.16 GPa	313 ksi	5 mm/min; ASTM D638
Flexural Strength	88.3 MPa	12800 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.45 GPa	356 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.794 J/cm @Thickness 6.35 mm	1.49 ft-lb/in @Thickness 0.250 in	ASTM D256
	0.922 J/cm @Thickness 3.17 mm	1.73 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	142 Â°C @Thickness 6.40 mm	288 Â°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	131 Â°C @Thickness 6.40 mm	268 Â°F @Thickness 0.252 in	ASTM D648

Thermal Properties Vicat Softening Point	Metric 148 Â°C	English 298 Â°F	Comments B/120; ISO R306
	148 Â°C	298 Â°F	B/120; ISO R306
Flammability, UL94	V-2 @Thickness 0.800 mm	V-2 @Thickness 0.0315 in	

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