

Samsung Cheil Industries Infino® HN-3102G PC, Glass Filled FR

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-HN-3102G-PC-Glass-Filled-FR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm @Thickness 3.20 mm	0.0030 - 0.0040 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	33 g/10 min @Load 10.0 kg, Temperature 250 Â°C	33 g/10 min @Load 22.0 lb, Temperature 482 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90	90	ASTM D785
Tensile Strength at Break	63.7 MPa	9240 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	84.3 MPa	12200 psi	5 mm/min; ASTM D638
Elongation at Break	5.2 %	5.2 %	5 mm/min; ASTM D638
Tensile Modulus	3.24 GPa	469 ksi	5 mm/min; ASTM D638
Flexural Strength	147 MPa	21300 psi	2.8 mm/min; ASTM D790
Flexural Modulus	4.02 GPa	583 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.490 J/cm @Thickness 6.35 mm	0.918 ft-lb/in @Thickness 0.250 in	ASTM D256
	0.549 J/cm @Thickness 3.17 mm	1.03 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)	137 Â°C @Thickness 6.40 mm	279 Â°F @Thickness 0.252 in	ASTM D648

Thermal Properties Vicat Softening Point	Metric 145 Â°C	English 293 Â°F	Comments B/120; ISO R306
	145 Â°C	293 Â°F	B/120; ISO R306
Flammability, UL94	V-0 @Thickness 1.50 - 1.60 mm	V-0 @Thickness 0.0591 - 0.0630 in	

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