

Samsung Cheil Industries Infino® VB-5300GS PBT, Glass Filled FR

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Glass Fiber Filled, Flame Retardant

Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-VB-5300GS-PBT-Glass-Filled-FR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.62 g/cc	1.62 g/cc	ASTM D792
Water Absorption	0.060 % @Temperature 23.0 °C	0.060 % @Temperature 73.4 °F	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 - 0.0090 cm/cm @Thickness 3.20 mm	0.0030 - 0.0090 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 250 °C	15 g/10 min @Load 4.76 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength at Break	127 MPa	18400 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	127 MPa	18500 psi	5 mm/min; ASTM D638
Elongation at Break	3.4 %	3.4 %	5 mm/min; ASTM D638
Tensile Modulus	0.765 GPa	111 ksi	5 mm/min; ASTM D638
Flexural Strength	196 MPa	28400 psi	2.8 mm/min; ASTM D638
Flexural Modulus	9.61 GPa	1390 ksi	2.8 mm/min; ASTM D638
Izod Impact, Notched	0.579 J/cm @Thickness 6.35 mm	1.08 ft-lb/in @Thickness 0.250 in	ASTM D256
	0.735 J/cm @Thickness 3.17 mm	1.38 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	223 °C	433 °F	ASTM D648

Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	210 °C @Thickness 6.40 mm	410 °F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	210 °C	410 °F	B/50; ISO R306
	212 °C	414 °F	B/120; ISO R306
Flammability, UL94	V-0 @Thickness 0.750 - 3.00 mm	V-0 @Thickness 0.0295 - 0.118 in	

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