

Samsung Cheil Industries Infino[®] VB-5150GL PBT, 15% Glass Filled FR

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber 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-VB-5150GL-PBT-15-Glass-Filled-FR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.54 g/cc	1.54 g/cc	ASTM D792
Water Absorption	0.070 %	0.070 %	ASTM D570
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Linear Mold Shrinkage, Flow	0.0040 - 0.011 cm/cm	0.0040 - 0.011 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	21 g/10 min	21 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 250 Â°C	@Load 4.76 lb, Temperature 482 Â°F	
Ash	15 %	15 %	ASTM D5630

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	82.4 MPa	12000 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	83.4 MPa	12100 psi	5 mm/min; ASTM D638
Elongation at Break	3.3 %	3.3 %	5 mm/min; ASTM D638
Tensile Modulus	4.61 GPa	668 ksi	5 mm/min; ASTM D638
Flexural Strength	147 MPa	21300 psi	2.8 mm/min; ASTM D638
Flexural Modulus	5.79 GPa	839 ksi	2.8 mm/min; ASTM D638
Izod Impact, Notched	0.275 J/cm	0.514 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
	0.333 J/cm	0.625 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	

Thermal Properties	Metric	English	Comments
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Thermal Properties	214 Â°C Metric	417 Â°F English	Comments
Tensile Strength at 0.46 MPa (66 psi)	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	194 Â°C @Thickness 6.40 mm	381 Â°F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	202 Â°C	396 Â°F	B/50; ISO R306
	206 Â°C	403 Â°F	B/120; ISO R306
Flammability, UL94	V-0 @Thickness 0.740 - 3.00 mm	V-0 @Thickness 0.0291 - 0.118 in	

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