

Samsung Cheil Industries Infino® GP-5150GT PBT, 15% Glass Filled

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

Material Notes:

Low warpage with 15% GF reinforcement and can be used in the switches for microwave or ovens
Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-GP-5150GT-PBT-15-Glass-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Water Absorption	0.070 % @Temperature 23.0 Â°C	0.070 % @Temperature 73.4 Â°F	ASTM D570
Linear Mold Shrinkage, Flow	0.0040 - 0.011 cm/cm @Thickness 3.20 mm	0.0040 - 0.011 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	25 g/10 min @Load 2.16 kg, Temperature 250 Â°C	25 g/10 min @Load 4.76 lb, Temperature 482 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength at Break	91.2 MPa	13200 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	98.1 MPa	14200 psi	50 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	5 mm/min; ASTM D638
Tensile Modulus	4.41 GPa	640 ksi	5 mm/min; ASTM D638
Flexural Strength	147 MPa	21300 psi	2.8 mm/min; ASTM D790
Flexural Modulus	4.90 GPa	711 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.353 J/cm @Thickness 6.35 mm	0.661 ft-lb/in @Thickness 0.250 in	ASTM D256
	0.490 J/cm @Thickness 3.17 mm	0.918 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
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Thermal Properties	217 Â°C Metric	423 Â°F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	185 Â°C @Thickness 6.40 mm	365 Â°F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	200 Â°C	392 Â°F	B/50; ISO R306
	203 Â°C	397 Â°F	B/120; ISO R306
Flammability, UL94	HB @Thickness 0.700 mm	HB @Thickness 0.0276 in	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China