

Samsung Cheil Industries Infino[®] GP-5000 PBT, Unreinforced

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

Material Notes:

General PBT material that can be used for connectors. Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-GP-5000-PBT-Unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.012 - 0.021 cm/cm @Thickness 3.20 mm	0.012 - 0.021 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	74 g/10 min @Load 2.16 kg, Temperature 250 Å°C	74 g/10 min @Load 4.76 lb, Temperature 482 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength at Break	46.1 MPa	6690 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	53.9 MPa	7820 psi	50 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	5 mm/min; ASTM D638
Tensile Modulus	2.16 GPa	313 ksi	50 mm/min; ASTM D638
Flexural Strength	83.4 MPa	12100 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.26 GPa	327 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.265 J/cm @Thickness 6.35 mm	0.496 ft-lb/in @Thickness 0.250 in	ASTM D256
	0.275 J/cm @Thickness 3.17 mm	0.514 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	170 Å°C @Thickness 6.40 mm	338 Å°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	75.0 Å°C @Thickness 6.40 mm	167 Å°F @Thickness 0.252 in	ASTM D648

Thermal Properties	Metric	English	Comments
Vicat Softening Point	188 Å°C	370 Å°F	B/120; ISO R306
Flammability, UL94	HB @Thickness 0.700 mm	HB @Thickness 0.0276 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.1 @Frequency 1.00e+6 Hz	3.1 @Frequency 1.00e+6 Hz	ASTM D150
Dissipation Factor	0.020 @Frequency 1.00e+6 Hz	0.020 @Frequency 1.00e+6 Hz	ASTM D150
Arc Resistance	140 sec	140 sec	Tungsten; ASTM D495

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