

Samsung Cheil Industries Infino[®] GC-1017 PC/ABS, FR

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-GC-1017-PCABS-FR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	46 g/10 min @Load 10.0 kg, Temperature 220 Å°C	46 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength at Break	43.1 MPa	6250 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	56.9 MPa	8250 psi	50 mm/min; ASTM D638
Elongation at Break	23 %	23 %	50 mm/min; ASTM D638
Tensile Modulus	2.35 GPa	341 ksi	50 mm/min; ASTM D638
Flexural Strength	83.4 MPa	12100 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.35 GPa	341 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	1.37 J/cm @Thickness 6.35 mm	2.57 ft-lb/in @Thickness 0.250 in	ASTM D256
	5.88 J/cm @Thickness 3.17 mm	11.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	91.0 Å°C @Thickness 6.40 mm	196 Å°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	93.0 Å°C @Thickness 6.40 mm	199 Å°F @Thickness 0.252 in	ASTM D648

Thermal Properties	Metric	English	Comments
Heat Softening Point	92.0 Å°C	208 Å°F	B/50; ISO R306
	94.0 Å°C	201 Å°F	B/120; ISO R306
UL RTI, Electrical	85.0 Å°C	185 Å°F	
UL RTI, Mechanical with Impact	85.0 Å°C	185 Å°F	
UL RTI, Mechanical without Impact	85.0 Å°C	185 Å°F	
Flammability, UL94	V-0	V-0	
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	5VB	5VB	
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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