

Samsung Cheil Industries Infino® GW-1030S PC, Unreinforced Recycled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded

Material Notes:

Eco-friendly Post-Consumer recycled content. Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-GW-1030S-PC-Unreinforced-Recycled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	
Melt Flow	18 g/10 min	18 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 250 Â°C	@Load 22.0 lb, Temperature 482 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	67.7 MPa	9820 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	58.8 MPa	8530 psi	50 mm/min; ASTM D638
Elongation at Break	107 %	107 %	50 mm/min; ASTM D638
Tensile Modulus	1.86 GPa	270 ksi	50 mm/min; ASTM D638
Flexural Strength	83.4 MPa	12100 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.01 GPa	292 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	5.88 J/cm	11.0 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	
	7.85 J/cm	14.7 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	137 Â°C	279 Â°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	124 Â°C	255 Â°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Thermal Properties Vicat Softening Point	Metric 140 Â°C	English 284 Â°F	Comments B/50; ISO R306
	144 Â°C	291 Â°F	B/120; ISO R306
Flammability, UL94	HB @Thickness 0.800 - 3.00 mm	HB @Thickness 0.0315 - 0.118 in	

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