

Samsung Cheil Industries Infino® MKD-1016 PA, 55% Glass Filled

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-MKD-1016-PA-55-Glass-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.56 g/cc	1.56 g/cc	ASTM D792
Water Absorption	3.9 % @Temperature 23.0 Â°C	3.9 % @Temperature 73.4 Â°F	ASTM D570
Linear Mold Shrinkage, Transverse	0.0030 cm/cm @Thickness 3.20 mm	0.0030 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	10 g/10 min @Load 1.20 kg, Temperature 300 Â°C	10 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238
	13 g/10 min @Load 2.16 kg, Temperature 275 Â°C	13 g/10 min @Load 4.76 lb, Temperature 527 Â°F	ASTM D1238
Ash	55 %	55 %	ASTM D5630

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength at Break	265 MPa	38400 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	265 MPa	38400 psi	5 mm/min; ASTM D638
Elongation at Break	4.2 %	4.2 %	5 mm/min; ASTM D638
Tensile Modulus	18.6 GPa	2700 ksi	5 mm/min; ASTM D638
Flexural Strength	333 MPa	48300 psi	2.8 mm/min; ASTM D790
Flexural Modulus	15.3 GPa	2220 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	1.18 J/cm @Thickness 6.35 mm	2.20 ft-lb/in @Thickness 0.250 in	ASTM D256
	1.27 J/cm	2.39 ft-lb/in	ASTM D256

Mechanical Properties	@Thickness 3.17 mm Metric	@Thickness 0.125 in English	Comments
Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	250 Â°C @Thickness 6.40 mm	482 Â°F @Thickness 0.252 in	ASTM D648
Flammability, UL94	HB @Thickness 0.800 - 3.00 mm	HB @Thickness 0.0315 - 0.118 in	

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