

Samsung Cheil Industries Starex® GR-5020T SAN, 20% Glass Filled

Category : Polymer , Thermoplastic , SAN Polymer , Styrene Acrylonitrile (SAN), Molded, Glass Reinforced

Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-GR-5020T-SAN-20-Glass-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Thickness 3.20 mm	0.0010 - 0.0030 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	14 g/10 min @Load 10.0 kg, Temperature 220 Â°C	14 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238
Ash	20 %	20 %	ASTM D5630

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	108 MPa	15700 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	108 MPa	15600 psi	5 mm/min; ASTM D638
Elongation at Break	2.5 %	2.5 %	5 mm/min; ASTM D638
Tensile Modulus	6.28 GPa	910 ksi	5 mm/min; ASTM D638
Flexural Strength	108 MPa	15700 psi	2.8 mm/min; ASTM D790
Flexural Modulus	6.86 GPa	996 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.500 J/cm @Thickness 6.35 mm	0.937 ft-lb/in @Thickness 0.250 in	ASTM D256
	0.510 J/cm @Thickness 3.17 mm	0.955 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	104 Â°C @Thickness 6.40 mm	219 Â°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	102 Â°C @Thickness 6.40 mm	216 Â°F @Thickness 0.252 in	ASTM D648

Thermal Properties Vicat Softening Point	Metric 104 Â°C	English 219 Â°F	Comments B/50; ISO R306
	107 Â°C	225 Â°F	B/120; ISO R306
Flammability, UL94	HB @Thickness 1.50 - 3.00 mm	HB @Thickness 0.0591 - 0.118 in	

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