

Samsung Cheil Industries Starex[®] GR-4030 ABS, 30% Glass Filled

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 30% Glass Fiber Filled

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-4030-ABS-30-Glass-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 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	5.4 g/10 min @Load 10.0 kg, Temperature 220 Å°C	5.4 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238
Ash	31 %	31 %	ASTM D5630

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ASTM D785
Tensile Strength at Break	98.1 MPa	14200 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	102 MPa	14800 psi	5 mm/min; ASTM D638
Elongation at Break	2.6 %	2.6 %	5 mm/min; ASTM D638
Tensile Modulus	6.86 GPa	996 ksi	5 mm/min; ASTM D638
Flexural Strength	127 MPa	18400 psi	2.8 mm/min; ASTM D790
Flexural Modulus	7.75 GPa	1120 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.637 J/cm @Thickness 6.35 mm	1.19 ft-lb/in @Thickness 0.250 in	ASTM D256
	0.716 J/cm @Thickness 3.17 mm	1.34 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	108 Å°C @Thickness 6.40 mm	226 Å°F @Thickness 0.252 in	ASTM D648
	103 Å°C	217 Å°F	

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	Metric <small>@ Thickness 6.40 mm</small>	English <small>@ Thickness 0.252 in</small>	ASTM D648 Comments
Vicat Softening Point	107 Â°C	225 Â°F	B/50; ISO R306
	110 Â°C	230 Â°F	B/120; ISO R306
Flammability, UL94	HB <small>@Thickness 1.50 - 6.00 mm</small>	HB <small>@Thickness 0.0591 - 0.236 in</small>	

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