

Samsung Cheil Industries Starex[®] GR-4010 ABS, 10% Glass Filled

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 10% Glass Fiber Filled

Material Notes:

Material with 10% GF reinforcement with high stiffness that can be used in refrigerator vegetable boxes Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-GR-4010-ABS-10-Glass-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 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	7.8 g/10 min @Load 10.0 kg, Temperature 220 Å°C	7.8 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238
Ash	9.7 %	9.7 %	ASTM D5630

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ASTM D785
Tensile Strength at Break	68.6 MPa	9950 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	72.6 MPa	10500 psi	5 mm/min; ASTM D638
Elongation at Break	3.4 %	3.4 %	5 mm/min; ASTM D638
Tensile Modulus	3.53 GPa	512 ksi	5 mm/min; ASTM D638
Flexural Strength	98.1 MPa	14200 psi	2.8 mm/min; ASTM D790
Flexural Modulus	4.02 GPa	583 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.853 J/cm @Thickness 6.35 mm	1.60 ft-lb/in @Thickness 0.250 in	ASTM D256
	0.883 J/cm @Thickness 3.17 mm	1.65 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	106 Å°C @Thickness 6.40 mm	223 Å°F @Thickness 0.252 in	ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	@Thickness 6.40 mm	@Thickness 0.252 in	ASTM D648
Vicat Softening Point	106 Å°C	223 Å°F	B/50; ISO R306
	108 Å°C	226 Å°F	B/120; ISO R306
Flammability, UL94	HB @Thickness 1.50 - 6.00 mm	HB @Thickness 0.0591 - 0.236 in	

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