

Samsung Cheil Industries Starex[®] VG-4920F ABS, Glass Filled FR

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 10% 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-VG-4920F-ABS-Glass-Filled-FR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 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	42 g/10 min @Load 10.0 kg, Temperature 220 Â°C	42 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength at Break	98.1 MPa	14200 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	85.3 MPa	12400 psi	5 mm/min; ASTM D638
Elongation at Break	2.8 %	2.8 %	5 mm/min; ASTM D638
Tensile Modulus	5.88 GPa	853 ksi	5 mm/min; ASTM D638
Flexural Strength	103 MPa	14900 psi	2.8 mm/min; ASTM D638
Flexural Modulus	5.69 GPa	825 ksi	2.8 mm/min; ASTM D638
Izod Impact, Notched	0.588 J/cm @Thickness 3.17 mm	1.10 ft-lb/in @Thickness 0.125 in	ASTM D256
	0.598 J/cm @Thickness 6.35 mm	1.12 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	100 Â°C @Thickness 6.40 mm	212 Â°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	93.0 Â°C @Thickness 6.40 mm	199 Â°F @Thickness 0.252 in	ASTM D648

Thermal Properties Vicat Softening Point	Metric 107°C	English 216°F	Comments B/120; ISO R306
	102 Â°C	216 Â°F	B/120; ISO R306
Flammability, UL94	V-0 @Thickness 1.60 - 3.00 mm	V-0 @Thickness 0.0630 - 0.118 in	
	5VB @Thickness 2.00 - 3.00 mm	5VB @Thickness 0.0787 - 0.118 in	

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