

Samsung Cheil Industries Starex® VE-0558 ABS, Unreinforced FR

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

Material Notes:

Flame-retardant ABS with excellent weather resistance that is used in the exterior of OA devices such as monitors, printers, fax machines, duplicators etc. Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-VE-0558-ABS-Unreinforced-FR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm @Thickness 3.20 mm	0.0030 - 0.0060 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	3.2 g/10 min @Load 5.00 kg, Temperature 200 Â°C	3.2 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	93	93	ASTM D785
Tensile Strength at Break	26.5 MPa	3840 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	35.3 MPa	5120 psi	5 mm/min; ASTM D638
Elongation at Break	12 %	12 %	5 mm/min; ASTM D638
Tensile Modulus	1.77 GPa	256 ksi	5 mm/min; ASTM D638
Flexural Strength	53.0 MPa	7690 psi	2.8 mm/min; ASTM D638
Flexural Modulus	1.77 GPa	256 ksi	2.8 mm/min; ASTM D638
Izod Impact, Notched	1.96 J/cm @Thickness 6.35 mm	3.67 ft-lb/in @Thickness 0.250 in	ASTM D256
	2.55 J/cm @Thickness 3.17 mm	4.78 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	89.0 Â°C @Thickness 6.40 mm	192 Â°F @Thickness 0.252 in	ASTM D648
	80.0 Â°C	176 Â°F	

Thermal Properties Deflection Temperature at 1.8 MPa (180 psi)	Metric @ Thickness 6.40 mm	English @ Thickness 0.252 in	ASTM D648 Comments
Vicat Softening Point	90.0 Â°C	194 Â°F	B/50; ISO R306
	93.0 Â°C	199 Â°F	B/120; ISO R306
Flammability, UL94	V-0 @Thickness 2.10 - 3.00 mm	V-0 @Thickness 0.0827 - 0.118 in	
	5VB @Thickness 2.50 - 3.00 mm	5VB @Thickness 0.0984 - 0.118 in	

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