

Samsung Cheil Industries Starex[®] VE-1805 HIPS, Unreinforced FR

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-VE-1805-HIPS-Unreinforced-FR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.145 g/cc	1.145 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0060 cm/cm @Thickness 3.20 mm	0.0020 - 0.0060 in/in @Thickness 0.126 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0020 - 0.0060 cm/cm @Thickness 3.20 mm	0.0020 - 0.0060 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	12 g/10 min @Load 5.00 kg, Temperature 200 Å°C	12 g/10 min @Load 11.0 lb, Temperature 392 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	22.6 MPa	3270 psi	20 mm/min; ASTM D638
Flexural Strength	29.4 MPa	4260 psi	2.8 mm/min; ASTM D638
Flexural Modulus	1.77 GPa	256 ksi	2.8 mm/min; ASTM D638
Izod Impact, Notched	0.981 J/cm @Thickness 3.17 mm	1.84 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	71.0 Å°C @Thickness 6.40 mm	160 Å°F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	85.0 Å°C	185 Å°F	B/50; ISO R306
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	

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