

Samsung Cheil Industries Starex[®] NH-1904 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-NH-1904-HIPS-Unreinforced-FR.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm @Thickness 3.20 mm	0.0040 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	52 g/10 min @Load 10.0 kg, Temperature 220 Å°C	52 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Yield	41.2 MPa	5970 psi	5 mm/min; ASTM D638
Elongation at Break	15 %	15 %	5 mm/min; ASTM D638
Flexural Strength	65.7 MPa	9530 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.35 GPa	341 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.785 J/cm @Thickness 3.17 mm	1.47 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	79.0 Å°C @Thickness 6.40 mm	174 Å°F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	95.0 Å°C	203 Å°F	B/50; ISO R306
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	
	V-0 @Thickness 2.50 mm	V-0 @Thickness 0.0984 in	

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