

Samsung Cheil Industries Starex[®] HR-0370F ABS, Unreinforced Heat Resistant

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Heat Resistant, Molded

Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-HR-0370F-ABS-Unreinforced-Heat-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Water Absorption	0.050 % @Temperature 23.0 °C	0.050 % @Temperature 73.4 °F	ASTM D570
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0060 cm/cm @Thickness 3.20 mm	0.0060 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	0.90 g/10 min @Load 5.00 kg, Temperature 200 °C	0.90 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Yield	46.1 MPa	6680 psi	5 mm/min; ASTM D638
Elongation at Break	14 %	14 %	5 mm/min; ASTM D638
Flexural Strength	68.6 MPa	9950 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.16 GPa	313 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	1.47 J/cm @Thickness 6.35 mm	2.76 ft-lb/in @Thickness 0.250 in	ASTM D256
	1.57 J/cm @Thickness 3.17 mm	2.94 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa	95.0 °C	203 °F	

(264 psi) Thermal Properties	Metric @ Thickness 6.40 mm	English @ Thickness 0.252 in	ASTM D648 Comments
Vicat Softening Point	106 Å°C	223 Å°F	B/50; ISO R306

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