

Samsung Cheil Industries Starex® SR-0315 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-SR-0315-ABS-Unreinforced-Heat-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Water Absorption	0.050 % @Temperature 23.0 Â°C	0.050 % @Temperature 73.4 Â°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	10 g/10 min @Load 10.0 kg, Temperature 220 Â°C	10 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109	109	ASTM D785
Tensile Strength, Yield	43.1 MPa	6260 psi	5 mm/min; ASTM D638
Elongation at Break	14 %	14 %	5 mm/min; ASTM D638
Flexural Strength	61.8 MPa	8960 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.06 GPa	299 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	1.67 J/cm @Thickness 6.35 mm	3.12 ft-lb/in @Thickness 0.250 in	ASTM D256
	1.77 J/cm @Thickness 3.17 mm	3.31 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	86.0 Â°C	187 Â°F	ASTM D648

Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
Vicat Softening Point	103 Â°C	217 Â°F	B/50; ISO R306

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