

Samsung Cheil Industries Starex[®] SP-0170 ABS, Unreinforced Extrusion Grade

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Extruded

Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-SP-0170-ABS-Unreinforced-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	7.1 g/10 min @Load 10.0 kg, Temperature 220 Å°C	7.1 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	94	94	ASTM D785
Tensile Strength, Yield	38.2 MPa	5550 psi	5 mm/min; ASTM D638
Elongation at Break	50 %	50 %	5 mm/min; ASTM D638
Flexural Strength	53.0 MPa	7690 psi	2.8 mm/min; ASTM D790
Flexural Modulus	1.72 GPa	249 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	3.82 J/cm @Thickness 6.35 mm	7.16 ft-lb/in @Thickness 0.250 in	ASTM D256
	4.71 J/cm @Thickness 3.17 mm	8.82 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	88.0 Å°C @Thickness 6.40 mm	190 Å°F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	97.0 Å°C	207 Å°F	B/50; ISO R306

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