

Samsung Cheil Industries Starex® PT-0180 ABS, Unreinforced Painting Grade

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 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-PT-0180-ABS-Unreinforced-Painting-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Water Absorption	0.30 % @Temperature 23.0 Â°C	0.30 % @Temperature 73.4 Â°F	ASTM D570
Linear Mold Shrinkage, Flow	0.0050 - 0.0060 cm/cm @Thickness 3.20 mm	0.0050 - 0.0060 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	3.7 g/10 min @Load 5.00 kg, Temperature 200 Â°C	3.7 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D785
Tensile Strength at Break	34.3 MPa	4970 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	39.2 MPa	5690 psi	5 mm/min; ASTM D638
Elongation at Break	55 %	55 %	5 mm/min; ASTM D638
Tensile Modulus	2.16 GPa	313 ksi	5 mm/min; ASTM D638
Flexural Strength	62.8 MPa	9110 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.16 GPa	313 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	2.16 J/cm @Thickness 6.35 mm	4.04 ft-lb/in @Thickness 0.250 in	ASTM D256
	2.45 J/cm @Thickness 3.17 mm	4.59 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	95.0 Â°C	203 Â°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	86.0 Â°C	187 Â°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	98.0 Â°C	208 Â°F	B/50; ISO R306
	102 Â°C	216 Â°F	B/120; ISO R306

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