

Samsung Cheil Industries Starex^Â® GC-0710 ABS/PET, Unreinforced Recycled

Category : Polymer , Thermoplastic , ABS Polymer , ABS/Polyester Alloy , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

Eco-friendly Post-Consumer recycled PET. Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-GC-0710-ABSPET-Unreinforced-Recycled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	96	96	ASTM D785
Tensile Strength, Yield	40.2 MPa	5830 psi	50 mm/min; ASTM D638
Elongation at Break	40 %	40 %	50 mm/min; ASTM D638
Flexural Strength	60.8 MPa	8820 psi	2.8 mm/min; ASTM D790
Flexural Modulus	1.87 GPa	272 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	1.18 J/cm @Thickness 6.35 mm	2.20 ft-lb/in @Thickness 0.250 in	ASTM D256
	2.75 J/cm @Thickness 3.17 mm	5.14 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	80.0 Â°C @Thickness 6.40 mm	176 Â°F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	94.0 Â°C	201 Â°F	B/50; ISO R306
Flammability, UL94	HB @Thickness 1.50 - 3.00 mm	HB @Thickness 0.0591 - 0.118 in	

Optical Properties	Metric	English	Comments
Yellow Index	25 %	25 %	ASTM D1925

Optical Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
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