

SABIC Innovative Plastics Xenoy® 1103 PBT+PC

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

AUTOMOTIVE. Unreinforced, impact modified PBT+PC alloy. Excellent low temperature impact and chemical resistance. Range gray, black colors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-1103-PBTPC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm @Thickness 3.20 mm	0.0080 - 0.010 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	13 g/10 min @Load 5.00 kg, Temperature 250 Å°C	13 g/10 min @Load 11.0 lb, Temperature 482 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	51.0 MPa	7400 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	150 %	150 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	1.89 GPa	274 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	77.0 MPa	11200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.93 GPa	280 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	7.47 J/cm	14.0 ft-lb/in	ASTM D256
Dart Drop, Total Energy	61.0 J @Temperature 23.0 Å°C	45.0 ft-lb @Temperature 73.4 Å°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	171 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	95.0 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831

Thermal Properties	Metric $m/m-^{\circ}C$	English $in-^{\circ}F$	Comments
CTE, linear, Transverse to Flow	@Temperature -40.0 - 40.0 $^{\circ}C$	@Temperature -40.0 - 104 $^{\circ}F$	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	104 $^{\circ}C$ @Thickness 3.20 mm	219 $^{\circ}F$ @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	87.0 $^{\circ}C$ @Thickness 3.20 mm	189 $^{\circ}F$ @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	125 $^{\circ}C$	257 $^{\circ}F$	Rate B/50; ASTM D1525

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