

SABIC Innovative Plastics Xenoy® 1102 PBT+PC

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

Material Notes:

Unreinforced PC/polyester alloy. Excellent low temperatue impact/chemical resistance to automotive fluids.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-1102-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
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm @Thickness 3.20 mm	0.0080 - 0.010 in/in @Thickness 0.126 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	54.0 MPa	7830 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	150 %	150 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	82.0 MPa	11900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.96 GPa	284 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	8.01 J/cm	15.0 ft-lb/in	ASTM D256
	6.40 J/cm @Temperature -30.0 Â°C	12.0 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
	6.94 J/cm @Temperature 0.000 Â°C	13.0 ft-lb/in @Temperature 32.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	110 Â°C @Thickness 6.40 mm	230 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Â°C @Thickness 6.40 mm	194 Â°F @Thickness 0.252 in	unannealed; ASTM D648

Descriptive Properties	Value	Comments
Specific Volume	0.83cm ³ /g	ASTM D792

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