

## SABIC Innovative Plastics Xenoy® 1101 PBT+PC (Asia Pacific)

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

### Material Notes:

Unreinforced, opaque polycarbonate/polyester alloy. Excellent low temperature impact plus chemical resistance to automotive fluid. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Xenoy-1101-PBTPC-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-1101-PBTPC-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D 792
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	58.0 MPa	8410 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	52.0 MPa	7540 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	120 %	120 %	Type I, 50 mm/min; ASTM D 638
Flexural Yield Strength	84.0 MPa	12200 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.04 GPa	296 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	2.99 J/cm	5.60 ft-lb/in	ASTM D 256
	@Temperature -40.0 Å°C	@Temperature -40.0 Å°F	
	6.08 J/cm	11.4 ft-lb/in	
	@Temperature -20.0 Å°C	@Temperature -4.00 Å°F	
	6.78 J/cm	12.7 ft-lb/in	
Gardner Impact	@Temperature 0.000 Å°C	@Temperature 32.0 Å°F	ASTM D 256
	7.10 J/cm	13.3 ft-lb/in	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Gardner Impact	54.0 J	39.8 ft-lb	ASTM D 3029
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	50.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 95.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 203 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	106 $\text{Å}^\circ\text{C}$	223 $\text{Å}^\circ\text{F}$	unannealed; ASTM D 648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	98.0 $\text{Å}^\circ\text{C}$	208 $\text{Å}^\circ\text{F}$	unannealed; ASTM D 648
	@Thickness 6.40 mm	@Thickness 0.252 in	

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