

**SABIC Innovative Plastics Xenoy® 1760 PBT+PC**

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

**Material Notes:**

11% Glass Reinforced PBT+PC alloy. Impact/chemical resistant. Excellent physical property retention in automotive exteriors.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Xenoy-1760-PBTPC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-1760-PBTPC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Density	1.30 g/cc	0.0470 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.150 %	0.150 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.50 %	0.50 %	ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Index of Compound	12 g/10 min @Load 5.00 kg, Temperature 265 °C	12 g/10 min @Load 11.0 lb, Temperature 509 °F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	84.0 MPa	12200 psi	Type I, 5 mm/min; ASTM D638
	84.0 MPa	12200 psi	5 mm/min; ISO 527
Tensile Strength, Yield	84.0 MPa	12200 psi	Type I, 5 mm/min; ASTM D638
	84.0 MPa	12200 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
	3.0 %	3.0 %	5 mm/min; ISO 527
Tensile Modulus	4.95 GPa	718 ksi	1 mm/min; ISO 527
	5.32 GPa	772 ksi	5 mm/min; ASTM D638

Mechanical Properties	Metric <sup>Pa</sup>	English <sup>psi</sup>	Comments
	134 MPa	19400 psi	1.3 mm/min, 50 mm span; ASTM D790 2 mm/min; ISO 178
Flexural Modulus	3.91 GPa	567 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.05 GPa	587 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.950 J/cm	1.78 ft-lb/in	ASTM D256
	0.850 J/cm	1.59 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ASTM D256
Izod Impact, Notched (ISO)	3.00 kJ/mÂ²	1.43 ft-lb/inÂ²	80*10*4; ISO 180/1A
	3.00 kJ/mÂ²	1.43 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.60 J/cmÂ²	7.61 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	3.00 J	2.21 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ASTM D3763
	3.00 J	2.21 ft-lb	ASTM D3763
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ASTM D3763
	4.00 J	2.95 ft-lb	Instrumented Impact, Energy @ peak, -20Â°C; ASTM D3763
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	ASTM D3763
	8.00 J	5.90 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.0 Âµm/m-Â°C	25.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 95.0 Â°C	@Temperature -40.0 - 203 Â°F	ASTM E 831
	77.0 Âµm/m-Â°C	42.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	ISO 11359-2
	77.0 Âµm/m-Â°C	42.8 Âµin/in-Â°F	ASTM E 831

Thermal Properties	Metric @Temperature -40.0 - 40.0 Â°C	English @Temperature -40.0 - 104 Â°F	Comments
CTE, linear, Transverse to Flow	38.0 Âµm/m-Â°C	21.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	38.0 Âµm/m-Â°C	21.1 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	73.8 Âµm/m-Â°C	41.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 95.0 Â°C	@Temperature -40.0 - 203 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	104 Â°C	219 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	115 Â°C	239 Â°F	
	@Thickness 6.40 mm	@Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	121 Â°C	250 Â°F	Rate B/50; ASTM D1525
	130 Â°C	266 Â°F	Rate B/120; ISO 306
	135 Â°C	275 Â°F	Rate B/50; ISO 306

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