

SABIC Innovative Plastics Xenoy[®] X5601WX PBT + PC + PET

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PET + PBT Unreinforced , Polyethylene Terephthalate (PET)

Material Notes:

Impact modified PBT+PC+PET, Heat aging improved Xenoy

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-X5601WX-PBT-PC-PET.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.010 cm/cm @Thickness 3.20 mm	0.010 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	14 g/10 min @Load 5.00 kg, Temperature 266 Å°C	14 g/10 min @Load 11.0 lb, Temperature 511 Å°F	ASTM D1238
Melt Index of Compound	14 g/10 min @Load 5.00 kg, Temperature 265 Å°C	14 g/10 min @Load 11.0 lb, Temperature 509 Å°F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	Type I, 50 mm/min; ASTM D638
	50.0 MPa	7250 psi	50 mm/min; ISO 527
Tensile Strength, Yield	53.0 MPa	7690 psi	50 mm/min; ISO 527
	54.0 MPa	7830 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	93 %	93 %	Type I, 50 mm/min; ASTM D638
	118 %	118 %	50 mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	50 mm/min; ISO 527
	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.28 GPa	331 ksi	50 mm/min; ASTM D638
Flexural Strength	82.0 MPa	11900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	82.0 MPa	11900 psi	2 mm/min; ISO 178

Flexural Modulus Mechanical Properties	2.20 GPa Metric	319 ksi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
Izod Impact, Notched	8.17 J/cm	15.3 ft-lb/in	ASTM D256
	2.47 J/cm @Temperature -30.0 °C	4.63 ft-lb/in @Temperature -22.0 °F	ASTM D256
Izod Impact, Notched (ISO)	62.0 kJ/m ²	29.5 ft-lb/in ²	80*10*4; ISO 180/1A
	18.0 kJ/m ² @Temperature -30.0 °C	8.57 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
Dart Drop, Total Energy	55.0 J @Temperature 23.0 °C	40.6 ft-lb @Temperature 73.4 °F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.4 Åµm/m-Å°C	39.1 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	70.4 Åµm/m-Å°C	39.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	71.6 Åµm/m-Å°C	39.8 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	71.6 Åµm/m-Å°C	39.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	124 Å°C	255 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	98.0 Å°C	208 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	101 Å°C @Thickness 3.20 mm	214 Å°F @Thickness 0.126 in	
Vicat Softening Point	130 Å°C	266 Å°F	Rate B/50; ISO 306
	131 Å°C	268 Å°F	Rate B/50; ASTM D1525
	132 Å°C	270 Å°F	Rate B/120; ISO 306

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