

SABIC Innovative Plastics Xenoy® X6800BM PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

Material Notes:

Blow moldable, impact modified XENOY This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-X6800BM-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D 792
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.010 %	0.010 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.10 % @Temperature 23.0 ^o C	0.10 % @Temperature 73.4 ^o F	ISO 62
Linear Mold Shrinkage, Flow	0.0285 - 0.0335 cm/cm @Thickness 3.20 mm	0.0285 - 0.0335 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 265 ^o C	4.0 g/10 min @Load 4.76 lb, Temperature 509 ^o F	ASTM D 1238
	9.0 g/10 min @Load 5.00 kg, Temperature 265 ^o C	9.0 g/10 min @Load 11.0 lb, Temperature 509 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	38.0 MPa	5510 psi	50 mm/min; ISO 527
	48.0 MPa	6960 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	31.0 MPa	4500 psi	50 mm/min; ISO 527
	35.0 MPa	5080 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	167 %	167 %	50 mm/min; ISO 527
	238 %	238 %	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	11 %	11 %	Type I, 50 mm/min; ASTM D 638
	14.4 %	14.4 %	50 mm/min; ISO 527
Tensile Modulus	1.69 GPa	245 ksi	5 mm/min; ASTM D 638

Mechanical Properties	Metric Pa	English	Comments ISO 527
Flexural Yield Strength	48.0 MPa	6960 psi	2 mm/min; ISO 178
	51.0 MPa	7400 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	1.42 GPa	206 ksi	2 mm/min; ISO 178
	1.65 GPa	239 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	1.86 J/cm	3.48 ft-lb/in	ASTM D 256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	8.02 J/cm	15.0 ft-lb/in	ASTM D 256
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Izod Impact, Notched (ISO)	22.0 kJ/mÂ²	10.5 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	95.0 kJ/mÂ²	45.2 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact, Notched	12.9 J/cmÂ²	61.4 ft-lb/inÂ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Impact Test	54.0 J	39.8 ft-lb	Instrumented Impact Total Energy; ASTM D 3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	83.0 Âµm/m-Â°C	46.1 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	83.0 Âµm/m-Â°C	46.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	170 Âµm/m-Â°C	94.4 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	170 Âµm/m-Â°C	94.4 Âµin/in-Â°F	

Thermal Properties	Metric @ Temperature -40.0 - 40.0 Â°C	English @ Temperature -40.0 - 104 Â°F	ISO 11359-2 Comments
Deflection Temperature at 1.8 MPa (264 psi)	46.0 Â°C	115 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	47.0 Â°C @Thickness 3.20 mm	117 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	115 Â°C	239 Â°F	Rate B/50; ASTM D 1525
	115 Â°C	239 Â°F	Rate B/120; ISO 306
	118 Â°C	244 Â°F	Rate B/50; ISO 306

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