

SABIC Innovative Plastics Xenoy[®] X6800BM PBT (Asia Pacific)

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

Material Notes:

Blow moldable, impact modified XENYOY

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Moisture Absorption	0.0100 %	0.0100 %	23 [°] C / 50% RH; ISO 62
Water Absorption at Saturation	0.10 %	0.10 %	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 [°] C	4.0 g/10 min @Load 4.76 lb, Temperature 509 [°] F	ASTM D1238
Melt Index of Compound	9.0 g/10 min @Load 5.00 kg, Temperature 265 [°] C	9.0 g/10 min @Load 11.0 lb, Temperature 509 [°] F	MVR [cm ³ /10 min]; 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 D638
Tensile Strength, Yield	31.0 MPa	4500 psi	50 mm/min; ISO 527
	35.0 MPa	5080 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	167 %	167 %	50 mm/min; ISO 527
	238 %	238 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	11 %	11 %	Type I, 50 mm/min; ASTM D638
	14.4 %	14.4 %	50 mm/min; ISO 527
Tensile Modulus	1.69 GPa	245 ksi	5 mm/min; ASTM D638
	1.70 GPa	247 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	51.0 MPa	7400 psi	1.3 mm/min, 50 mm span; ASTM D790
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 D790
Izod Impact, Notched	8.02 J/cm	15.0 ft-lb/in	ASTM D256
	1.86 J/cm	3.48 ft-lb/in	ASTM D256
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Izod Impact, Notched (ISO)	95.0 kJ/mÅ²	45.2 ft-lb/inÅ²	80*10*4; ISO 180/1A
	22.0 kJ/mÅ²	10.5 ft-lb/inÅ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Charpy Impact, Notched	12.9 J/cmÅ²	61.4 ft-lb/inÅ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	54.0 J	39.8 ft-lb	ASTM D3763
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	83.0 Åµm/m-Å°C	46.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	83.0 Åµm/m-Å°C	46.1 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	170 Åµm/m-Å°C	94.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	170 Åµm/m-Å°C	94.4 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	46.0 Å°C	115 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	47.0 Å°C	117 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Vicat Softening Point Thermal Properties	115 Â°C Metric	239 Â°F English	Rate B/120; ISO 306 Comments
	115 Â°C	239 Â°F	Rate B/50; ASTM D1525
	118 Â°C	244 Â°F	Rate B/50; ISO 306

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