

SABIC Innovative Plastics Xenoy® EXXY0113 PBT (Europe-Africa-Middle East)

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

Material Notes:

Blow Moldable Impact modified XENOY This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-EXXY0113-PBT-Europe-Africa-Middle-East.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 Mechanical Properties	1.69 GPa Metric	245 ksi English	5 mm/min; ASTM D 638 Comments
	1.70 GPa	247 ksi	1 mm/min; 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 @Temperature -30.0 Â°C	3.48 ft-lb/in @Temperature -22.0 Â°F	ASTM D 256
	8.02 J/cm @Temperature 23.0 Â°C	15.0 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Notched (ISO)	22.0 kJ/mÂ² @Temperature -30.0 Â°C	10.5 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
	95.0 kJ/mÂ² @Temperature 23.0 Â°C	45.2 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	12.9 J/cmÂ² @Temperature 23.0 Â°C	61.4 ft-lb/inÂ² @Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	54.0 J @Temperature 23.0 Â°C	39.8 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

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

Thermal Properties	170 Åum/m-Å°C Metric	94.4 Åuin/in-Å°F English	Comments ISO 11359-2
	@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 D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	115 Å°C	239 Å°F	Rate B/50; ASTM D 1525
	115 Å°C	239 Å°F	Rate B/120; ISO 306
	118 Å°C	244 Å°F	Rate B/50; ISO 306

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China