

SABIC Innovative Plastics Xenoy[®] X6320 PBT+PC (Asia Pacific)

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

Material Notes:

X6320 is a mineral filled PBT/PC resin developed for automotive painted doorhandles. Key advantages are excellent surface finish, easy processing and paint quality.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-X6320-PBTPC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Density	1.33 g/cc	0.0480 lb/in ³	ISO 1183
Moisture Absorption	0.0600 %	0.0600 %	23 [°] C / 50% RH; ISO 62
Water Absorption at Saturation	0.12 %	0.12 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm @Thickness 3.20 mm	0.0050 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	20 g/10 min @Load 5.00 kg, Temperature 250 [°] C	20 g/10 min @Load 11.0 lb, Temperature 482 [°] F	ASTM D1238
Melt Index of Compound	16 g/10 min @Load 5.00 kg, Temperature 250 [°] C	16 g/10 min @Load 11.0 lb, Temperature 482 [°] F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	41.0 MPa	5950 psi	Type I, 5 mm/min; ASTM D638
	43.0 MPa	6240 psi	5 mm/min; ISO 527
Tensile Strength, Yield	63.0 MPa	9140 psi	Type I, 5 mm/min; ASTM D638
	63.0 MPa	9140 psi	5 mm/min; ISO 527
	64.0 MPa	9280 psi	SABIC - Japan Method
Elongation at Break	25.4 %	25.4 %	5 mm/min; ISO 527
	50 %	50 %	SABIC - Japan Method
	55.8 %	55.8 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	4.0 %	4.0 %	Type I, 5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments ISO 527
Tensile Modulus	3.86 GPa	560 ksi	1 mm/min; ISO 527
	3.89 GPa	564 ksi	5 mm/min; ASTM D638
Flexural Strength	111 MPa	16100 psi	ASTM D790
Flexural Yield Strength	106 MPa	15400 psi	2 mm/min; ISO 178
	107 MPa	15500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.54 GPa	513 ksi	2 mm/min; ISO 178
	3.55 GPa	515 ksi	1.3 mm/min, 50 mm span; ASTM D790
	3.75 GPa	544 ksi	ASTM D790
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	ASTM D256
	0.450 J/cm @Temperature -30.0 Â°C	0.843 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
Izod Impact, Notched (ISO)	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	80*10*4; ISO 180/1A
	5.00 kJ/mÂ² @Temperature -30.0 Â°C	2.38 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	0.400 J/cmÂ²	1.90 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	0.400 J/cmÂ² @Temperature -30.0 Â°C	1.90 ft-lb/inÂ² @Temperature -22.0 Â°F	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	65.0 J @Temperature 23.0 Â°C	47.9 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	59.9 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	61.5 Âµm/m-Â°C	34.2 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 60.0 Â°C	@Temperature -40.0 - 140 Â°F	

Thermal Properties CTE, linear, Transverse to Flow	68.4 Åµm/m-Å°C Metric	38.0 Åµin/in-Å°F English	Comments ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	70.2 Åµm/m-Å°C	39.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 60.0 Å°C	@Temperature -40.0 - 140 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	106 Å°C	223 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	121 Å°C	250 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	135 Å°C	275 Å°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	78.0 Å°C	172 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	88.0 Å°C	190 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	115 Å°C	239 Å°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	137 Å°C	279 Å°F	Rate B/50; ISO 306
	139 Å°C	282 Å°F	Rate B/120; ISO 306
	139 Å°C	282 Å°F	Rate B/50; ASTM D1525

Descriptive Properties	Value	Comments
Ball Pressure Test, 75Å°C +/- 2Å°C	Pass	IEC 60695-10-2

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