SABIC Innovative Plastics XenoyÂ® X6125 PBT+PC

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

Material Notes:

Unreinforced, impact modified, thermoplastic alloy (PBT+PC). High impact strength while retaining mechanical and thermal properties.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-X6125-PBTPC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D 792
Density	1.24 g/cc	0.0448 lb/inÂ³	ISO 1183
Moisture Absorption at Equilibrium	0.080 %	0.080 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.13 % @Temperature 23.0 Â°C	0.13 % @Temperature 73.4 Â°F	ISO 62
Linear Mold Shrinkage, Flow	0.0165 - 0.018 cm/cm @Thickness 3.20 mm	0.0165 - 0.018 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	17 g/10 min @Load 1.20 kg, Temperature 266 Â°C	17 g/10 min @Load 2.65 lb, Temperature 511 Â°F	ASTM D 1238
	28 g/10 min @Load 5.00 kg, Temperature 265 Â°C	28 g/10 min @Load 11.0 lb, Temperature 509 Â°F	[cm^3/10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	39.0 MPa	5660 psi	Type I, 50 mm/min; ASTM D 638
	39.0 MPa	5660 psi	50 mm/min; ISO 527
Tensile Strength, Yield	47.0 MPa	6820 psi	50 mm/min; ISO 527
	51.0 MPa	7400 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	130 %	130 %	50 mm/min; ISO 527
	137 %	137 %	Type I, 50 mm/min; ASTM D 638
Elongation at Yield	4.0 %	4.0 %	Type I, 50 mm/min; ASTM D 638
	4.0 %	4.0 %	50 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
Tensile Modulus	2.29 GPa	332 ksi	50 mm/min; ASTM D 638
	2.28 GPa	331 ksi	1 mm/min; ISO 527
Flexural Yield Strength	70.0 MPa	10200 psi	2 mm/min; ISO 178
	82.0 MPa	11900 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	1.86 GPa	270 ksi	2 mm/min; ISO 178
	2.29 GPa	332 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	1.22 J/cm @Temperature -30.0 Â°C	2.29 ft-lb/in @Temperature -22.0 Â°F	ASTM D 256
	8.85 J/cm @Temperature 23.0 Â°C	16.6 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Notched (ISO)	9.00 kJ/mÂ²	4.28 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
	64.0 kJ/mÂ² @Temperature 23.0 Â°C	30.5 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	7.50 J/cmÂ² @Temperature 23.0 Â°C	35.7 ft-lb/inÂ² @Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	59.0 J @Temperature 23.0 Â°C	43.5 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	88.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	48.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	88.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	48.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	50.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831

Thermal Properties	Metric µm/m-°C	English in/in-°F	Comments
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	115 °C @Thickness 3.20 mm	239 °F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	57.0 °C	135 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	64.0 °C @Thickness 3.20 mm	147 °F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	130 °C	266 °F	Rate B/50; ASTM D 1525
	132 °C	270 °F	Rate B/50; ISO 306
	135 °C	275 °F	Rate B/120; ISO 306

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