

SABIC Innovative Plastics Xenoy® X5100 PC+PBT (Europe-Africa-Middle East)

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

Material Notes:

XENOY X5100 is a semi-crystalline, impact modified PC-PBT blend with excellent flow. (PC+PBT-I).

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-X5100-PCPBT-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Moisture Absorption	0.150 %	0.150 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.50 %	0.50 %	ISO 62
Viscosity	215000 cP	215000 cP	Melt Viscosity, 260 ^o C, 1500 sec-1; ISO 11443
Linear Mold Shrinkage, Flow	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	on Tensile Bar; SABIC Method
Melt Index of Compound	13 g/10 min @Load 2.16 kg, Temperature 250 ^o C	13 g/10 min @Load 4.76 lb, Temperature 482 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	50 mm/min; ISO 527
Tensile Strength, Yield	54.0 MPa	7830 psi	50 mm/min; ISO 527
Elongation at Break	50 %	50 %	50 mm/min; ISO 527
Elongation at Yield	4.5 %	4.5 %	50 mm/min; ISO 527
Tensile Modulus	2.15 GPa	312 ksi	1 mm/min; ISO 527
Flexural Yield Strength	80.0 MPa	11600 psi	2 mm/min; ISO 178
Flexural Modulus	2.05 GPa	297 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1A
	18.0 kJ/m ² @Temperature -30.0 ^o C	8.57 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1A
	20.0 kJ/m ² @Temperature -20.0	9.52 ft-lb/in ² @Temperature -4.00	80*10*4; ISO 180/1A

Mechanical Properties	°C Metric	°F English	Comments
	35.0 kJ/m ² @Temperature -10.0 °C	16.7 ft-lb/in ² @Temperature 14.0 °F	80*10*4; ISO 180/1A
	40.0 kJ/m ² @Temperature 0.000 °C	19.0 ft-lb/in ² @Temperature 32.0 °F	80*10*4; ISO 180/1A
Charpy Impact Unnotched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eU
Charpy Impact, Notched	5.00 J/cm ²	23.8 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	1.50 J/cm ² @Temperature -30.0 °C	7.14 ft-lb/in ² @Temperature -22.0 °F	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	4.00 J/cm ² @Temperature 0.000 °C	19.0 ft-lb/in ² @Temperature 32.0 °F	Edgew 80*10*3 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	85.0 µm/m-°C @Temperature 23.0 - 80.0 °C	47.2 µin/in-°F @Temperature 73.4 - 176 °F	ISO 11359-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C @Temperature -40.0 - 40.0 °C	44.4 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft ² -°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	84.0 °C	183 °F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	117 °C	243 °F	Rate B/50; ISO 306
	120 °C	248 °F	Rate B/120; ISO 306
	135 °C	275 °F	Rate A/50; ISO 306

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

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