

SABIC Innovative Plastics Xenoy® X5500EX PBT+PC (Asia Pacific)

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

Material Notes:

Non-FR, non-UV PC/PBT blend for film extrusion application

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-X5500EX-PBTPC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Water Absorption at Saturation	0.040 %	0.040 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	6.5 g/10 min @Load 5.00 kg, Temperature 250 Â°C	6.5 g/10 min @Load 11.0 lb, Temperature 482 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	65.0 MPa	9430 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	95 %	95 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	5.5 %	5.5 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.46 GPa	357 ksi	50 mm/min; ASTM D638
Flexural Strength	95.0 MPa	13800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	98.0 MPa	14200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.28 GPa	331 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.05 J/cm	1.97 ft-lb/in	ASTM D256
Izod Impact, Unnotched	21.6 J/cm	40.5 ft-lb/in	ASTM D4812
	70.0 J	51.6 ft-lb	

Dart Drop, Total Energy Mechanical Properties	@Temperature 23.0 Metric °C	English @ Temperature 73.4 °F	ASTM D3763 Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	123 °C @Thickness 6.40 mm	253 °F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	108 °C @Thickness 6.40 mm	226 °F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	132 °C	270 °F	Rate B/50; ASTM D1525

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