

SABIC Innovative Plastics Xenoy® 5220U PBT+PC

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

Material Notes:

Unreinforced PBT+PC Alloy. Impact Modified. Improved retention of mechanical properties under UV exposure. Excellent low temperature impact and chemical resistance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-5220U-PBTPC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Moisture Absorption	0.150 %	0.150 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.50 %	0.50 %	ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm @Thickness 3.20 mm	0.0080 - 0.010 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	on Tensile Bar; SABIC Method
Melt Flow	16 g/10 min @Load 5.00 kg, Temperature 250 Â°C	16 g/10 min @Load 11.0 lb, Temperature 482 Â°F	ISO 1133
Melt Index of Compound	15 g/10 min @Load 5.00 kg, Temperature 250 Â°C	15 g/10 min @Load 11.0 lb, Temperature 482 Â°F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	50 mm/min; ISO 527
	51.0 MPa	7400 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	50.0 MPa	7250 psi	50 mm/min; ISO 527
	53.0 MPa	7690 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	120 %	120 %	Type I, 50 mm/min; ASTM D638
	120 %	120 %	50 mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	Type I, 50 mm/min; ASTM D638
	4.0 %	4.0 %	50 mm/min; ISO 527

Mechanical Properties	Metric ^{ISO 527}	English	Comments ^{ISO 527}
	2.25 GPa	326 ksi	50 mm/min; ASTM D638
	2.25 GPa	326 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	80.0 MPa	11600 psi	2 mm/min; ISO 178
	84.0 MPa	12200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	2 mm/min; ISO 178
	2.03 GPa	294 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	7.10 J/cm	13.3 ft-lb/in	ASTM D256
	2.99 J/cm	5.60 ft-lb/in	ASTM D256
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	
	5.30 J/cm	9.93 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	50.0 kJ/mÂ²	23.8 ft-lb/inÂ²	80*10*4; ISO 180/1A
	30.0 kJ/mÂ²	14.3 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	5.50 J/cmÂ²	26.2 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	60.0 J	44.3 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.0 Âµm/m-Â°C	52.8 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	95.0 Âµm/m-Â°C	52.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	

Thermal Properties	90.0 Åum/m-Å°C Metric	50.0 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 0.46 MPa (66 psi)	107 Å°C @Thickness 6.40 mm	225 Å°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	75.0 Å°C	167 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	84.0 Å°C @Thickness 3.20 mm	183 Å°F @Thickness 0.126 in	unannealed; ASTM D648
	99.0 Å°C @Thickness 6.40 mm	210 Å°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	120 Å°C	248 Å°F	Rate B/50; ISO 306
	122 Å°C	252 Å°F	Rate B/50; ASTM D1525
	125 Å°C	257 Å°F	Rate B/120; ISO 306
UL RTI, Electrical	75.0 Å°C	167 Å°F	UL 746B
UL RTI, Mechanical with Impact	75.0 Å°C	167 Å°F	UL 746B
UL RTI, Mechanical without Impact	75.0 Å°C	167 Å°F	UL 746B
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	UL 94

Electrical Properties	Metric	English	Comments
Arc Resistance	120 - 180 sec	120 - 180 sec	Tungsten; ASTM D495
Comparative Tracking Index	400 - 600 V	400 - 600 V	UL 746A
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A
High Voltage Arc-Tracking Rate, HVTR	0.000 - 10.0 mm/min	0.000 - 0.394 in/min	UL 746A

Descriptive Properties	Value	Comments
Specific Volume	0.83cm^3/g	ASTM D792
UV-light, water exposure/immersion	F2	UL 746C

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