

SABIC Innovative Plastics Xenoy® 6620U PBT+PC

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

Material Notes:

PBT+PC, Unfilled, Impact Modified, UV stabilized. Outstanding low temperature impact performance and chemical resistance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-6620U-PBTPC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.21 g/cc	0.0437 lb/in ³	ISO 1183
Water Absorption at Saturation	0.14 %	0.14 %	ISO 62
Linear Mold Shrinkage, Flow	0.016 - 0.018 cm/cm @Thickness 3.20 mm	0.016 - 0.018 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.016 - 0.018 cm/cm @Thickness 3.20 mm	0.016 - 0.018 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	21.9 g/10 min @Load 5.00 kg, Temperature 266 °C	21.9 g/10 min @Load 11.0 lb, Temperature 511 °F	ASTM D1238
Melt Index of Compound	17 g/10 min @Load 5.00 kg, Temperature 265 °C	17 g/10 min @Load 11.0 lb, Temperature 509 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	31.0 MPa	4500 psi	50 mm/min; ISO 527
	32.0 MPa	4640 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	41.0 MPa	5950 psi	50 mm/min; ISO 527
	43.0 MPa	6240 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	19.4 %	19.4 %	50 mm/min; ISO 527
	145 %	145 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	3.9 %	3.9 %	50 mm/min; ISO 527
	4.2 %	4.2 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	1.78 GPa	258 ksi	50 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	60.0 MPa	8700 psi	2 mm/min; ISO 178
	63.0 MPa	9140 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.69 GPa	245 ksi	2 mm/min; ISO 178
	1.78 GPa	258 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	8.97 J/cm	16.8 ft-lb/in	ASTM D256
	6.67 J/cm	12.5 ft-lb/in	ASTM D256
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Izod Impact, Unnotched	16.02 J/cm	30.01 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	54.0 kJ/mÅ²	25.7 ft-lb/inÅ²	80*10*4; ISO 180/1A
	51.0 kJ/mÅ²	24.3 ft-lb/inÅ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Charpy Impact, Notched	7.20 J/cmÅ²	34.3 ft-lb/inÅ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	56.0 J	41.3 ft-lb	ASTM D3763
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	98.9 Åµm/m-Å°C	54.9 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	98.9 Åµm/m-Å°C	54.9 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	105 Åµm/m-Å°C	58.3 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	105 Åµm/m-Å°C	58.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	98.0 Å°C	208 Å°F	unannealed; ASTM D648

Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	50.0 Â°C	122 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	60.0 Â°C	140 Â°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	118 Â°C	244 Â°F	Rate B/50; ISO 306
	121 Â°C	250 Â°F	Rate B/120; ISO 306
	123 Â°C	253 Â°F	Rate B/50; ASTM D1525
UL RTI, Electrical	75.0 Â°C	167 Â°F	UL 746B
UL RTI, Mechanical with Impact	75.0 Â°C	167 Â°F	UL 746B
UL RTI, Mechanical without Impact	75.0 Â°C	167 Â°F	UL 746B
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.47 mm	@Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Arc Resistance	120 - 180 sec	120 - 180 sec	Tungsten; ASTM D495
Comparative Tracking Index	>= 600 V	>= 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	10.0 - 25.4 mm/min	0.394 - 1.00 in/min	UL 746A

Descriptive Properties	Value	Comments
Specific Volume	0.83cm ³ /g	ASTM D792

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