

SABIC Innovative Plastics Xenoy[®] X4820 PBT+PC (Europe-Africa-Middle East)

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

Material Notes:

Xenoy X4820 is a high modulus PC/PBT Blend. This resin provides high chemical resistance, excellent impact, very low creep, low CTE, excellent fatigue and dimensional stability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-X4820-PBTPC-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Density	1.26 g/cc	0.0455 lb/in ³	ISO 1183
Moisture Absorption	0.140 %	0.140 %	23 [°] C / 50% RH; ISO 62
Water Absorption at Saturation	0.42 %	0.42 %	ISO 62
Linear Mold Shrinkage, Flow	0.0095 - 0.011 cm/cm @Thickness 3.20 mm	0.0095 - 0.011 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	10 g/10 min @Load 5.00 kg, Temperature 250 [°] C	10 g/10 min @Load 11.0 lb, Temperature 482 [°] F	ASTM D1238
Melt Index of Compound	12 g/10 min @Load 5.00 kg, Temperature 265 [°] C	12 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	52.0 MPa	7540 psi	50 mm/min; ISO 527
	58.0 MPa	8410 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	57.0 MPa	8270 psi	Type I, 50 mm/min; ASTM D638
	58.0 MPa	8410 psi	50 mm/min; ISO 527
Elongation at Break	100 %	100 %	50 mm/min; ISO 527
	140 %	140 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	4.2 %	4.2 %	Type I, 50 mm/min; ASTM D638
	4.2 %	4.2 %	50 mm/min; ISO 527

Tensile Modulus Mechanical Properties	3.00 GPa Metric	435 ksi English	1 mm/min; ISO 527 Comments
	3.20 GPa	464 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	87.0 MPa	12600 psi	2 mm/min; ISO 178
	91.0 MPa	13200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.85 GPa	413 ksi	2 mm/min; ISO 178
	2.90 GPa	421 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	7.00 J/cm	13.1 ft-lb/in	ASTM D256
	1.50 J/cm	2.81 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	55.0 kJ/m ²	26.2 ft-lb/in ²	80*10*4; ISO 180/1A
	15.0 kJ/m ²	7.14 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	6.00 J/cm ²	28.6 ft-lb/in ²	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 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	75.0 Åµm/m-Å°C	41.7 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	75.0 Åµm/m-Å°C	41.7 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	110 Åµm/m-Å°C	61.1 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	110 Åµm/m-Å°C	61.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	94.0 Å°C	201 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Åf

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	130 Â°C	266 Â°F	Rate B/50; ASTM D1525
	132 Â°C	270 Â°F	Rate B/50; ISO 306
	134 Â°C	273 Â°F	Rate B/120; ISO 306

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