

SABIC Innovative Plastics Xenoy[®] X5410 PC+PET (Asia Pacific)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Mineral filled PC+PET resin with high heat dimensional stability for paint systems. It has very low CTE and excellent flow - impact balance for automotive exterior applications, like body panels, tailgates, spoilers, rockerpanels or tankflaps

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-X5410-PCPET-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 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	0.0065 - 0.0075 cm/cm @Thickness 3.20 mm	0.0065 - 0.0075 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	0.20 g/10 min @Load 2.16 kg, Temperature 250 [°] C	0.20 g/10 min @Load 4.76 lb, Temperature 482 [°] F	ASTM D1238
	19 g/10 min @Load 2.16 kg, Temperature 265 [°] C	19 g/10 min @Load 4.76 lb, Temperature 509 [°] F	ASTM D1238
Melt Index of Compound	17 g/10 min @Load 2.16 kg, Temperature 265 [°] C	17 g/10 min @Load 4.76 lb, Temperature 509 [°] F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	26.0 MPa	3770 psi	5 mm/min; ISO 527
	45.0 MPa	6530 psi	Type I, 5 mm/min; ASTM D638
	45.0 MPa	6530 psi	Type I, 10 mm/min; SABIC - Japan Method
Tensile Strength, Yield	55.0 MPa	7980 psi	5 mm/min; ISO 527
	56.0 MPa	8120 psi	Type I, 5 mm/min; ASTM D638
	56.0 MPa	8120 psi	Type I, 10 mm/min; SABIC - Japan Method
Elongation at Break	12.1 %	12.1 %	5 mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	38.7 %	38.7 %	Type I, 5 mm/min; ASTM D638
	100 %	100 %	Type I, 10 mm/min; SABIC - Japan Method
Elongation at Yield	4.1 %	4.1 %	5 mm/min; ISO 527
	4.2 %	4.2 %	Type I, 5 mm/min; ASTM D638
	67 %	67 %	Type I, 10 mm/min; SABIC - Japan Method
Tensile Modulus	3.19 GPa	463 ksi	1 mm/min; ISO 527
	3.23 GPa	468 ksi	5 mm/min; ASTM D638
Flexural Yield Strength	92.0 MPa	13300 psi	1.3 mm/min, 50 mm span; ASTM D790
	93.0 MPa	13500 psi	2 mm/min; ISO 178
Flexural Modulus	2.70 GPa	392 ksi	2 mm/min; ISO 178
	2.99 GPa	434 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.870 J/cm	1.63 ft-lb/in	ASTM D256
	0.820 J/cm	1.54 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	54.0 J	39.8 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	58.1 Åµm/m-Å°C	32.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature -30.0 - 80.0 Å°C	@Temperature -22.0 - 176 Å°F	
	58.6 Åµm/m-Å°C	32.6 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 60.0 Å°C	@Temperature -40.0 - 140 Å°F	

Thermal Properties	Metric 70.1 Åµm/m-Å°C	English 39.2 Åµin/in-Å°F	Comments
CTE, linear, Transverse to Flow	@Temperature 23.0 - 80.0 Å°C	@Temperature 73.4 - 176 Å°F	ISO 11359-2
	70.5 Åµm/m-Å°C	39.2 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 60.0 Å°C	@Temperature -40.0 - 140 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	128 Å°C	262 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	129 Å°C	264 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	134 Å°C	273 Å°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	105 Å°C	221 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	109 Å°C	228 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	121 Å°C	250 Å°F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	137 Å°C	279 Å°F	Rate B/50; ASTM D1525
	137 Å°C	279 Å°F	Rate B/50; ISO 306
	140 Å°C	284 Å°F	Rate B/120; ISO 306

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

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