

SABIC Innovative Plastics Xenoy® X5630 PC+PET

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

Mineral filled PC/PET blend with high heat dimensional stability, low shrinkage and low CTE, especially for painted applications This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-X5630-PCPET.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D 792
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.14 %	0.14 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.42 % @Temperature 23.0 ^o C	0.42 % @Temperature 73.4 ^o F	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0060 cm/cm @Thickness 3.20 mm	0.0050 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	10 g/10 min @Load 5.00 kg, Temperature 265 ^o C	10 g/10 min @Load 11.0 lb, Temperature 509 ^o F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	11 g/10 min @Load 5.00 kg, Temperature 266 ^o C	11 g/10 min @Load 11.0 lb, Temperature 511 ^o F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	Type I, 5 mm/min; ASTM D 638
	50.0 MPa	7250 psi	5 mm/min; ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	Type I, 5 mm/min; ASTM D 638
	56.0 MPa	8120 psi	5 mm/min; ISO 527
Elongation at Break	8.0 %	8.0 %	5 mm/min; ISO 527
	10 %	10 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	3.2 %	3.2 %	Type I, 5 mm/min; ASTM D 638
	3.2 %	3.2 %	5 mm/min; ISO 527

Tensile Modulus Mechanical Properties	4.30 GPa Metric	624 ksi English	1 mm/min* ISO 527 Comments
	4.40 GPa	638 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	90.0 MPa	13100 psi	1.3 mm/min, 50 mm span; ASTM D 790
	90.0 MPa	13100 psi	2 mm/min; ISO 178
Flexural Modulus	4.20 GPa	609 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	4.20 GPa	609 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.600 J/cm @Temperature -30.0 Â°C	1.12 ft-lb/in @Temperature -22.0 Â°F	ASTM D 256
	0.800 J/cm @Temperature 23.0 Â°C	1.50 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Notched (ISO)	6.00 kJ/mÂ² @Temperature -30.0 Â°C	2.86 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
	8.00 kJ/mÂ² @Temperature 23.0 Â°C	3.81 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	80.0 kJ/mÂ² @Temperature -30.0 Â°C	38.1 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1U
	100 kJ/mÂ² @Temperature 23.0 Â°C	47.6 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Charpy Impact, Notched	0.600 J/cmÂ² @Temperature 23.0 Â°C	2.86 ft-lb/inÂ² @Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	45.0 J @Temperature 23.0 Â°C	33.2 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	23.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831

Thermal Properties	48.0 Âµm/m-Â°C Metric	26.7 Âµin/in-Â°F English	Comments ISO 11359-2
	@Temperature -30.0 - 80.0 Â°C	@Temperature -22.0 - 176 Â°F	
	48.0 Âµm/m-Â°C	26.7 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 80.0 Â°C	@Temperature 73.4 - 176 Â°F	
CTE, linear, Transverse to Flow	64.0 Âµm/m-Â°C	35.6 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	68.0 Âµm/m-Â°C	37.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature -30.0 - 80.0 Â°C	@Temperature -22.0 - 176 Â°F	
	68.0 Âµm/m-Â°C	37.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 80.0 Â°C	@Temperature 73.4 - 176 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	112 Â°C	234 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	112 Â°C	234 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	138 Â°C	280 Â°F	Rate B/50; ASTM D 1525
	138 Â°C	280 Â°F	Rate B/50; ISO 306
	140 Â°C	284 Â°F	Rate B/120; ISO 306

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