

SABIC Innovative Plastics Xenoy® X5630 PC+PET (Europe-Africa-Middle East)

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

Material Notes:

Mineral filled PC/PET blend with high heat dimensional stability, low shrinkage and low CTE, especially for painted applications

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-X5630-PCPET-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Density	1.35 g/cc	0.0488 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	0.0050 - 0.0060 cm/cm @Thickness 3.20 mm	0.0050 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	11 g/10 min @Load 5.00 kg, Temperature 266 °C	11 g/10 min @Load 11.0 lb, Temperature 511 °F	ASTM D1238
Melt Index of Compound	10 g/10 min @Load 5.00 kg, Temperature 265 °C	10 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	50.0 MPa	7250 psi	Type I, 5 mm/min; ASTM D638
	50.0 MPa	7250 psi	5 mm/min; ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	Type I, 5 mm/min; ASTM D638
	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 D638
Elongation at Yield	3.2 %	3.2 %	Type I, 5 mm/min; ASTM D638
	3.2 %	3.2 %	5 mm/min; ISO 527
Tensile Modulus	4.30 GPa	624 ksi	1 mm/min; ISO 527
	4.40 GPa	638 ksi	5 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	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 D790
	4.20 GPa	609 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
	0.600 J/cm	1.12 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Unnotched (ISO)	100 kJ/m ²	47.6 ft-lb/in ²	80*10*4; ISO 180/1U
	80.0 kJ/m ²	38.1 ft-lb/in ²	80*10*4; ISO 180/1U
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	45.0 J	33.2 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.0 µm/m-°C	23.9 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	48.0 µm/m-°C	26.7 µin/in-°F	ISO 11359-2
	@Temperature -30.0 - 80.0 °C	@Temperature -22.0 - 176 °F	
	48.0 µm/m-°C	26.7 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
CTE, linear, Transverse to Flow	64.0 µm/m-°C	35.6 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	68.0 µm/m-°C	37.8 µin/in-°F	ISO 11359-2
	@Temperature -30.0 -	@Temperature -22.0 -	

Thermal Properties	80.0 °C Metric	176 °F English	Comments
	68.0 µm/m-°C	37.8 µin/in-°F	
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	112 °C	234 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	112 °C	234 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	138 °C	280 °F	Rate B/50; ASTM D1525
	138 °C	280 °F	Rate B/50; ISO 306
	140 °C	284 °F	Rate B/120; ISO 306

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