

## SABIC Innovative Plastics Xenoy<sup>®</sup> X5600WX PC+POLYESTER (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polyester, TP

### Material Notes:

Unreinforced, opaque Polyester+PC alloy. Chemical resistance, dimensional stability and mechanical performance. UV Stabilized. Mold Release  
This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Xenoy-X5600WX-PCPOLYESTER-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-X5600WX-PCPOLYESTER-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D 792
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm @Thickness 3.20 mm	0.0070 - 0.0090 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm @Thickness 3.20 mm	0.0070 - 0.0090 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	4.1 g/10 min @Load 5.00 kg, Temperature 250 °C	4.1 g/10 min @Load 11.0 lb, Temperature 482 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.0 MPa	8120 psi	50 mm/min; ISO 527
	61.0 MPa	8850 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	55.0 MPa	7980 psi	50 mm/min; ISO 527
	61.0 MPa	8850 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	120 %	120 %	Type I, 50 mm/min; ASTM D 638
	120 %	120 %	50 mm/min; ISO 527
Elongation at Yield	4.5 %	4.5 %	50 mm/min; ISO 527
	5.2 %	5.2 %	Type I, 50 mm/min; ASTM D 638
Tensile Modulus	2.48 GPa	360 ksi	50 mm/min; ASTM D 638
Flexural Yield Strength	70.0 MPa	10200 psi	2 mm/min; ISO 178
	99.0 MPa	14400 psi	1.3 mm/min, 50 mm span; ASTM D 790

Mechanical Properties	Metric	English	Comments
	2.48 GPa	360 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	2.67 J/cm	5.00 ft-lb/in	ASTM D 256
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	8.00 J/cm	15.0 ft-lb/in	ASTM D 256
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Izod Impact, Notched (ISO)	20.0 kJ/mÅ²	9.52 ft-lb/inÅ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	50.0 kJ/mÅ²	23.8 ft-lb/inÅ²	80*10*4; ISO 180/1A
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Charpy Impact, Notched	6.00 J/cmÅ²	28.6 ft-lb/inÅ²	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Impact Test	54.0 J	39.8 ft-lb	Instrumented Impact Total Energy; ASTM D 3763
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	69.0 Åµm/m-Å°C	38.3 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	69.0 Åµm/m-Å°C	38.3 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	74.0 Åµm/m-Å°C	41.1 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	74.0 Åµm/m-Å°C	41.1 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)	120 Å°C	248 Å°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (184 psi)	98.0 Å°C @Thickness 3.20 mm	208 Å°F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	130 Å°C	266 Å°F	Rate B/50; ASTM D 1525
	130 Å°C	266 Å°F	Rate B/50; ISO 306
	132 Å°C	270 Å°F	Rate B/120; ISO 306

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