

SABIC Innovative Plastics Xenoy® X5600WX PC/PEI Resin (Europe-Africa-Middle East)

Categories: [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.

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

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/in³	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
Flexural Modulus	2.15 GPa	312 ksi	2 mm/min; ISO 178
	2.48 GPa	360 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched 	2.67 J/cm @Temperature -30.0 °C	5.00 ft-lb/in @Temperature -22.0 °F	ASTM D 256
	8.00 J/cm @Temperature 23.0 °C	15.0 ft-lb/in @Temperature 73.4 °F	ASTM D 256
Izod Impact, Notched (ISO) 	20.0 kJ/m² @Temperature -30.0 °C	9.52 ft-lb/in² @Temperature -22.0 °F	80*10*4; ISO 180/1A
	50.0 kJ/m² @Temperature 23.0 °C	23.8 ft-lb/in² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	6.00 J/cm² @Temperature 23.0 °C	28.6 ft-lb/in² @Temperature 73.4 °F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	54.0 J @Temperature 23.0 °C	39.8 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow 	69.0 µm/m-°C @Temperature -40.0 - 40.0 °C	38.3 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	69.0 µm/m-°C @Temperature -40.0 - 40.0 °C	38.3 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
CTE, linear, Transverse to Flow 	74.0 µm/m-°C @Temperature -40.0 - 40.0 °C	41.1 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	74.0 µm/m-°C @Temperature -40.0 - 40.0 °C	41.1 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	120 °C @Thickness 3.20 mm	248 °F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C @Thickness 3.20 mm	203 °F @Thickness 0.126 in	Flatw 80*10*4 sp=64mm; ISO 75/AF
	98.0 °C @Thickness 3.20 mm	208 °F @Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	130 °C	266 °F	Rate B/50; ASTM D 1525
	130 °C	266 °F	Rate B/50; ISO 306
	132 °C	270 °F	Rate B/120; ISO 306

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.

