

SABIC Innovative Plastics XENOY 1101 Polyester

Categories: [Polymer](#); [Thermoplastic](#); [Polycarbonate](#); [Polyester, TP](#)

Material Notes: Information provided by GE Plastics for their North American product line.

Saudi Basic Industries Corporation (SABIC) announced on August 31st, 2007, the completion of its purchase of GE Plastics.

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
Density	1.21 g/cc	0.0437 lb/in³	ASTM D 792
Linear Mold Shrinkage	0.00800 - 0.0100 cm/cm	0.00800 - 0.0100 in/in	Flow, 0.125 inch; ASTM D 955

Mechanical Properties	Metric	English	Comments
Tensile Strength @ Break	58.6 MPa	8500 psi	Type I, 2.0 in/min; ASTM D 638
Tensile Strength @ Yield	53.0 MPa	7680 psi	Type I, 2.0 in/min; ASTM D 638
Elongation at Break	120 %	120 %	Type I, 2.0 in/min; ASTM D 638
Flexural Modulus	2.04 GPa	296 ksi	0.05 in/min, 2" span; ASTM D 790
Flexural Yield Strength	84.8 MPa	12300 psi	0.05 in/min, 2" span; ASTM D 790
Gardner Impact	54.2 J	40.0 ft-lb	73F; ASTM D 3029
Izod Impact, Notched	7.10 J/cm	13.3 ft-lb/in	73F; ASTM D 256
Izod Impact, Notched, Low Temp	2.99 J/cm	5.60 ft-lb/in	at -40F; ASTM D 256
	6.09 J/cm	11.4 ft-lb/in	0F; ASTM D 256
	6.78 J/cm	12.7 ft-lb/in	32F; ASTM D 256

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C @Temperature -40.0 - 93.3 °C	50.0 µin/in-°F @Temperature -40.0 - 200 °F	Flow Direction; ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	106 °C	223 °F	0.250 inch, unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	98.9 °C	210 °F	0.250 inch, unannealed; ASTM D 648

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 disclaimer and terms of use regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.

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