SABIC Innovative Plastics XENOY 1101 Polyeste[illegible]

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

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