

BASF Terluran® 996 S ABS (Unverified Data**)

Categories: [Polymer](#); [Thermoplastic](#); [ABS Polymer](#); [Acrylonitrile Butadiene Styrene \(ABS\)](#), [Molded](#)



Material Notes: Very high-impact injection-molding product.



Data was collected by ISO methods and provided by BASF.

This product is not listed in the BASF product line, March 2007.

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	1.05 g/cc	0.0379 lb/in ³	
Water Absorption	1.8 %	1.8 %	
Moisture Absorption at Equilibrium	0.45 %	0.45 %	
Linear Mold Shrinkage, Flow	0.0055 cm/cm	0.0055 in/in	
Melt Flow	3.0 g/10 min	3.0 g/10 min	220°C/10kg

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	40.0 MPa	5800 psi	
Elongation at Break	22 %	22 %	
Elongation at Yield	3.0 %	3.0 %	
Tensile Modulus	1.90 GPa	276 ksi	
Charpy Impact Unnotched	NB	NB	
 Charpy Impact, Unnotched	17.0 J/cm ² @Temperature -30.0 °C	80.9 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	3.60 J/cm ²	17.1 ft-lb/in ²	
 Charpy Impact, Notched	1.60 J/cm ² @Temperature -30.0 °C	7.61 ft-lb/in ² @Temperature -22.0 °F	
Tensile Creep Modulus, 1000 hours	1150 MPa	167000 psi	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	
Dielectric Constant 	3.0 @Frequency 1e+6 Hz	3.0 @Frequency 1e+6 Hz	
	3.1 @Frequency 100 Hz	3.1 @Frequency 100 Hz	
Dissipation Factor 	0.0090 @Frequency 100 Hz	0.0090 @Frequency 100 Hz	
	0.010 @Frequency 1e+6 Hz	0.010 @Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.0 µm/m-°C @Temperature 20.0 °C	52.8 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	
Deflection Temperature at 1.8 MPa (264 psi)	97.0 °C	207 °F	
Vicat Softening Point	92.0 °C	198 °F	
Flammability, UL94	HB	HB	3.18 mm
Oxygen Index	19 %	19 %	

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