

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific • Central America	• Europe • Latin America • North America	• South America
Filler / Reinforcement	• Carbon Fiber Reinforcement	• Glass Fiber Reinforcement	
Additive	• Heat Stabilizer		
Features	• Electrically Conductive • Good Stiffness	• Good Strength • Heat Stabilized	
Uses	• Automotive Applications • Business Equipment	• Engineering Parts • Textile Applications	
Appearance	• Black		

Physical	Nominal Value Unit	Test Method
Density	1.32 g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.20 to 0.50 %	DIN 16901
Water Absorption (23°C, 24 hr)	< 1.0 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	12500 MPa	ISO 527-2
Tensile Stress (Break)	200 MPa	ISO 527-2
Tensile Strain (Yield)	3.0 %	ISO 527-2
Flexural Modulus	10500 MPa	ISO 178
Flexural Strength	290 MPa	ISO 178
Coefficient of Friction		
vs. Itself - Dynamic	0.31	
vs. Itself - Static	0.27	
Flexural Strain	3.9 %	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	11 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	65 kJ/m <sup>2</sup>	ISO 179/1eU

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		ISO 75-2/A
1.8 MPa, Unannealed	245 °C	
Maximum Use Temperature - Short Term	160 °C	
Continuous Use Temperature	120 °C	UL 746B

Electrical	Nominal Value Unit	Test Method
Surface Resistivity	< 1.0E+4 ohms	IEC 60093
Insulation Resistance	< 1.0E+4 ohms	IEC 60167

Flammability	Nominal Value Unit	Test Method
Flame Rating - UL <sup>2</sup>	HB	UL 94

Injection	Nominal Value Unit
Drying Temperature	75.0 °C
Drying Time	6.0 to 16 hr
Rear Temperature	290 to 310 °C
Middle Temperature	290 to 310 °C
Front Temperature	290 to 310 °C
Nozzle Temperature	280 to 300 °C
Processing (Melt) Temp	290 °C
Mold Temperature	90.0 to 120 °C

#### Injection Notes

Drying conditions listed are for a dehumidifying dryer.

Vacuum Dryer Conditions:

- Drying Temperature: 105°C
- Drying Time: 4 to 6 hr

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Not recognized by UL.

#### Revision History

Document Created: Tuesday, February 07, 2012  
Added to Prospector: January, 2011  
Last Updated: 1/18/2011