

General			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Additive	• Antistatic	• Heat Stabilizer	
Features	<ul style="list-style-type: none"> • Acid Resistant • Antistatic • Detergent Resistant • Electrically Conductive • Fatigue Resistant • Fuel Resistant • Gasoline Resistance • Good Abrasion Resistance 	<ul style="list-style-type: none"> • Good Chemical Resistance • Good Crack Resistance • Good Processability • Grease Resistant • Heat Stabilized • High Strength • Low Friction • Low Temperature Impact Resistance 	<ul style="list-style-type: none"> • Low to No Water Absorption • Medium Viscosity • Noise Damping • Oil Resistant • Salt Water/Spray Resistant • Solvent Resistant • Sound Damping
Uses	<ul style="list-style-type: none"> • Electrical Parts • Electrical/Electronic Applications 	<ul style="list-style-type: none"> • Housings • Profiles 	<ul style="list-style-type: none"> • Switches
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value Unit	Test Method
Density	1.08 g/cm ³	ISO 1183
Molding Shrinkage		ISO 294-4
Across Flow	1.5 %	
Flow	1.4 %	
Water Absorption		ISO 62
Saturation, 23°C	1.5 %	
Equilibrium, 23°C, 1.00 mm, 50% RH	0.70 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	1400 MPa	ISO 527-2
Tensile Stress (Yield)	36.0 MPa	ISO 527-2
Tensile Strain		ISO 527-2
Yield	6.0 %	
Break	50 %	

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	12 kJ/m ²	
23°C	60 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	No Break	
23°C	No Break	

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	130 °C	ISO 75-2/B
1.8 MPa, Unannealed	50.0 °C	ISO 75-2/A
Vicat Softening Temperature		
--	175 °C	ISO 306/A
--	140 °C	ISO 306/B
Melting Temperature (DSC)	178 °C	ISO 3146
CLTE - Flow (23 to 55°C)	0.00017 cm/cm/°C	ISO 11359-2

Electrical	Nominal Value Unit	Test Method
Volume Resistivity	1.0E+7 ohm-cm	IEC 60093

Flammability	Nominal Value Unit	Test Method
Flame Rating - UL		UL 94
1.60 mm	HB	
3.20 mm	HB	

Additional Information

Insulation Resistance, IEC 60167: 1E+6 to 1E+9 ohm

Notes

¹ Typical properties: these are not to be construed as specifications.

Revision History

Document Created: Thursday, June 24, 2010
Added to Prospector: May, 2007
Last Updated: 7/31/2008