LubriOne™ SF-40GF/15T Natural

Polyphenylene Sulfide

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Europe	
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight		
Features	• Good Impact Resistance • Good Stiffness • Good Strength	• Heat Stabilized • Low Friction • Lubricated	• Wear Resistant
Uses	• Appliances • Automotive Applications	• Consumer Applications • Electrical/Electronic Applications	• General Purpose • Industrial Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.73 g/cm³	1.73 g/cm³	ISO 1183
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	1.89E+6 psi	13000 MPa	ISO 527-2/1
Tensile Stress	21800 psi	150 MPa	ISO 527-2/5
Tensile Strain (Break)	1.5 %	1.5 %	ISO 527-2/5
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact Strength	2.9 ft·lb/in²	6.0 kJ/m²	ISO 180/A
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	509 °F	265 °C	
Melting Temperature (DSC)	572 to 626 °F	300 to 330 °C	ISO 3146
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating			UL 94
0.031 in (0.8 mm)	V-0	V-0	
0.06 in (1.6 mm)	V-0	V-0	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	248 to 284 °F	120 to 140 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Rear Temperature	599 to 617 °F	315 to 325 °C
Middle Temperature	608 to 626 °F	320 to 330 °C
Front Temperature	617 to 635 °F	325 to 335 °C
Nozzle Temperature	626 to 644 °F	330 to 340 °C
Mold Temperature	275 to 311 °F	135 to 155 °C