

PolyOne Lubri-Tech™ SF-30CF/13T2S Polyphenylene Sulfide (PPS), Carbon Fiber Reinforced, PTFE/Silicone Lubricated &

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Description/Features: Carbon Fiber Reinforced PTFE/Silicone Lubricated PolyOne First Choice Information provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Lubri-Tech-SF-30CF13T2S-Polyphenylene-Sulfide-PPS-Carbon-Fiber-Reinforced-PTFESilicone-Lubricated-n.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D792
Water Absorption	0.040 %	0.040 %	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	176 MPa	25500 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	20.7 GPa	3000 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	276 MPa	40000 psi	ASTM D790
Flexural Modulus	20.7 GPa	3000 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.50 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	10.8 µm/m-°C @Temperature 20.0 °C	6.00 µin/in-°F @Temperature 68.0 °F	ASTM D696
Thermal Conductivity	>= 0.749 W/m-K	>= 5.20 BTU-in/hr-ft ² -°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	271 °C	520 °F	Annealed, 0.125 in bars; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	263 °C	505 °F	Annealed, 0.125 in bars; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 1000 ohm-cm	100 - 1000 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	316 - 332 °C	600 - 630 °F	Molding
Mold Temperature	93.3 - 149 °C	200 - 300 °F	
Drying Temperature	121 °C	250 °F	
Dry Time	2 hour	2 hour	

Descriptive Properties	Value	Comments
Product Form	Pellets	

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