

Lehmann & Voss LUVOCOM® 1301-0824 PPS, linear, with carbon fiber

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 10% Carbon Fiber Filler

Material Notes:

Applications: Automotive industry, textile-and office machinery, medical- and precision engineering.High-strength and stiff parts with low creep.Electrically conductive, suitable for continuous discharging of statically generated electricity.Suitable for metall inserts.High continuous use and heat distortion temperature. Non flammable.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1301-0824-PPS-linear-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ISO 1183
Water Absorption	<= 0.050 %	<= 0.050 %	23°C/24h
Linear Mold Shrinkage	0.00050 - 0.0020 cm/cm	0.00050 - 0.0020 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	205 MPa	29700 psi	
Elongation at Yield	1.3 %	1.3 %	
	1.6 %	1.6 %	flexural
Modulus of Elasticity	27.0 GPa	3920 ksi	
Flexural Strength	310 MPa	45000 psi	
Flexural Modulus	23.0 GPa	3340 ksi	
Charpy Impact Unnotched	2.80 J/cm ²	13.3 ft-lb/in ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 µm/m-°C	6.11 µin/in-°F	DIN 53752
Thermal Conductivity	1.50 W/m-K	10.4 BTU-in/hr-ft ² -°F	HOT-DISK 60x60x3 mm
Maximum Service Temperature, Air	220 °C	428 °F	
	240 °C	464 °F	short term
Deflection Temperature at 1.8 MPa (264 psi)	270 °C	518 °F	
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1000 ohm	<= 1000 ohm	
Insulation Resistance	<= 1000 ohm	<= 1000 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	330 °C	626 °F	mass temp
Nozzle Temperature	320 - 340 °C	608 - 644 °F	
Zone 1	300 - 320 °C	572 - 608 °F	
Zone 2	310 - 330 °C	590 - 626 °F	
Zone 3	320 - 340 °C	608 - 644 °F	
Mold Temperature	150 - 180 °C	302 - 356 °F	
Drying Temperature	50.0 - 90.0 °C @Time >= 14400 sec	122 - 194 °F @Time >= 4.00 hour	
	100 - 140 °C @Time 7200 - 14400 sec	212 - 284 °F @Time 2.00 - 4.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	natural color (black)	

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