

Lehmann & Voss LUVOCOM® 1301-0825 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-1301-0825-PPS-linear-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ISO 1183
Water Absorption	0.050 %	0.050 %	23Â°C/24h
Linear Mold Shrinkage	0.00050 - 0.0020 cm/cm	0.00050 - 0.0020 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	200 MPa	29000 psi	
Elongation at Yield	0.90 %	0.90 %	
	1.2 %	1.2 %	flexural
Modulus of Elasticity	35.0 GPa	5080 ksi	
Flexural Strength	300 MPa	43500 psi	
Flexural Modulus	30.0 GPa	4350 ksi	
Coefficient of Friction, Dynamic	0.29	0.29	
Coefficient of Friction, Static	0.23	0.23	

Thermal Properties	Metric	English	Comments
CTE, linear	9.00 Âµm/m-Â°C	5.00 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	2.20 W/m-K	15.3 BTU-in/hr-ftÂ²-Â°F	HOT-DISK 60x60x3 mm
Maximum Service Temperature, Air	220 Â°C	428 Â°F	
	240 Â°C	464 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	270 Â°C	518 Â°F	

Vicat Softening Point Thermal Properties	260 Â°C Metric	500 Â°F English	DIN ISO 306 Comments
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 100 ohm	<= 100 ohm	
Insulation Resistance	<= 100 ohm	<= 100 ohm	

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

Descriptive Properties	Value	Comments
Color	natural color (black)	

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