

Lehmann & Voss LUVOCOM® 1301/CF/20 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 continuous use and heat distortion temperature. Non flammable.High-strength and stiff parts with low creep.Electrically conductive, suitable for continuous discharging of statically generated electricity.Suitable for metall inserts.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1301CF20-PPS-linear-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ISO 1183
Water Absorption	<= 0.050 %	<= 0.050 %	23Â°C/24h
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	180 MPa	26100 psi	
Elongation at Yield	1.5 %	1.5 %	
	2.0 %	2.0 %	flexural
Modulus of Elasticity	17.0 GPa	2470 ksi	
Flexural Strength	250 MPa	36300 psi	
Flexural Modulus	16.0 GPa	2320 ksi	
Charpy Impact Unnotched	1.80 J/cmÂ²	8.57 ft-lb/inÂ²	flatwise; ISO 179 1fU
Coefficient of Friction, Dynamic	0.20	0.20	
Coefficient of Friction, Static	0.24	0.24	

Thermal Properties	Metric	English	Comments
CTE, linear	14.0 Âµm/m-Â°C	7.78 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	1.10 W/m-K	7.63 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)	260 Â°C	500 Â°F	

Thermal Properties	Metric	English	Comments
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 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	122 - 194 Â°F	
	@Time >= 14400 sec	@Time >= 4.00 hour	
	100 - 140 Â°C	212 - 284 Â°F	
	@Time 7200 - 14400 sec	@Time 2.00 - 4.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	natural color (black)	

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