

Lehmann & Voss LUVOCOM[®] 1301/XCF/30 N 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-1301XCF30-N-PPS-linear-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 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	255 MPa	37000 psi	
Elongation at Yield	1.0 %	1.0 %	
	1.6 %	1.6 %	flexural
Modulus of Elasticity	33.0 GPa	4790 ksi	
Flexural Strength	385 MPa	55800 psi	
Flexural Modulus	28.0 GPa	4060 ksi	
Charpy Impact Unnotched	4.40 J/cm ²	20.9 ft-lb/in ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 Âµm/m-Â°C	6.11 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	1.50 W/m-K	10.4 BTU-in/hr-ft ² -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	
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	Dehumidifying dryer
	@Time 7200 - 14400 sec	@Time 2.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Color	natural color (black)	

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