

Lehmann & Voss LUVOCOM® 1301-8400 PPS, linear, with carbon fiber, PTFE, lubricant modified

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.Improved friction and wear behaviour. Emergency running property.Electrically conductive, suitable for continuous discharging of statically generated electricity.High continuous use and heat distortion temperature. Non flammable.Control disks, gear wheels, pump impellers, gear parts for automotive appliances, chip carrier.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1301-8400-PPS-linear-with-carbon-fiber-PTFE-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.56 g/cc	1.56 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	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	175 MPa	25400 psi	
Elongation at Yield	1.0 %	1.0 %	
	1.2 %	1.2 %	flexural
Modulus of Elasticity	27.0 GPa	3920 ksi	
Flexural Strength	255 MPa	37000 psi	
Flexural Modulus	24.0 GPa	3480 ksi	
Charpy Impact Unnotched	2.50 J/cmÂ²	11.9 ft-lb/inÂ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
CTE, linear	9.00 Âµm/m-Â°C	5.00 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.750 W/m-K	5.20 BTU-in/hr-ftÂ²-Â°F	DIN 52612
Maximum Service Temperature, Air	220 Â°C	428 Â°F	
	240 Â°C	464 Â°F	short term
Vicat Softening Point	240 Â°C	464 Â°F	DIN ISO 306

Flammability, UL 94 Thermal Properties	V-0 Metric	V-0 English	Comments
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Electrical Properties	Metric	English	Comments
Surface Resistance	<= 100 ohm	<= 100 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 @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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