

Lehmann & Voss LUVOCOM® 1301/CF/15/TF/5 BK PPS, linear, with carbon fiber and PTFE

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-1301CF15TF5-BK-PPS-linear-with-carbon-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 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	145 MPa	21000 psi	
Elongation at Yield	1.1 %	1.1 %	
	1.5 %	1.5 %	flexural
Modulus of Elasticity	15.0 GPa	2180 ksi	
Flexural Strength	205 MPa	29700 psi	
Flexural Modulus	13.0 GPa	1890 ksi	
Charpy Impact Unnotched	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	edgewise; ISO 179 1eU
Coefficient of Friction, Dynamic	0.18	0.18	
Coefficient of Friction, Static	0.21	0.21	

Thermal Properties	Metric	English	Comments
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

Electrical Properties	Metric	English	Comments
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Surface Resistance Electrical Properties	≤ 10000 ohm Metric	≤ 10000 ohm English	Comments
Insulation Resistance	$\leq 1.00e+6$ ohm	$\leq 1.00e+6$ 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	black	

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