

Lehmann & Voss LUVOCOM[®] 1301/GF/30/TF/15/BK PPS, linear, with glass fiber and PTFE

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 10% Glass 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.Improved friction and wear behaviour. Emergency running property.High chemical resistance parts.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-1301GF30TF15BK-PPS-linear-with-glass-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.69 g/cc	1.69 g/cc	ISO 1183
Water Absorption	<= 0.050 %	<= 0.050 %	23 [°] C/24h
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	125 MPa	18100 psi	
Elongation at Yield	1.5 %	1.5 %	
	2.5 %	2.5 %	flexural
Modulus of Elasticity	11.0 GPa	1600 ksi	
Flexural Strength	190 MPa	27600 psi	
Flexural Modulus	10.0 GPa	1450 ksi	
Charpy Impact Unnotched	1.50 J/cm ²	7.14 ft-lb/in ²	flatwise; ISO 179 1fU
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.20	0.20	
Coefficient of Friction, Static	0.15	0.15	

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 μ m/m- [°] C	13.9 μ in/in- [°] F	DIN 53752
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft ² - [°] F	DIN 52612
Maximum Service Temperature, Air	220 [°] C	428 [°] F	

Thermal Properties	Metric 240 Â°C	English 464 Â°F	Comments short term
Deflection Temperature at 1.8 MPa (264 psi)	250 Â°C	482 Â°F	
Vicat Softening Point	240 Â°C	464 Â°F	DIN ISO 306
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+12 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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