

Lehmann & Voss LUVOCOM[®] 1301-8517 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-1301-8517-PPS-linear-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 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	135 MPa	19600 psi	
Elongation at Yield	0.90 %	0.90 %	
	1.6 %	1.6 %	flexural
Modulus of Elasticity	24.0 GPa	3480 ksi	
Flexural Strength	310 MPa	45000 psi	
Flexural Modulus	23.0 GPa	3340 ksi	
Charpy Impact Unnotched	1.50 J/cm ^Â 2	7.14 ft-lb/in ^Â 2	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Thermal Conductivity	5.10 W/m-K	35.4 BTU-in/hr-ft ^Â 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	

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1e+05	<= 1e+05	

Insulation Resistance Electrical Properties	$\leq 100000 \text{ ohm}$ Metric	$\leq 100000 \text{ ohm}$ English	Comments
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Processing Properties	Metric	English	Comments
Processing Temperature	330 Å°C	626 Å°F	mass temp
Nozzle Temperature	320 - 340 Å°C	608 - 644 Å°F	
Zone 1	300 - 320 Å°C	572 - 608 Å°F	
Zone 2	310 - 330 Å°C	590 - 626 Å°F	
Zone 3	320 - 340 Å°C	608 - 644 Å°F	
Mold Temperature	150 - 180 Å°C	302 - 356 Å°F	
Drying Temperature	50.0 - 90.0 Å°C @Time $\geq 14400 \text{ sec}$	122 - 194 Å°F @Time $\geq 4.00 \text{ hour}$	
	100 - 140 Å°C @Time 7200 - 14400 sec	212 - 284 Å°F @Time 2.00 - 4.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	natural color (black)	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China