

Lehmann & Voss LUVOCOM[®] 1301-0793 PPS, linear, with glass fiber

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-strength and stiff parts with low creep.High continuous use and heat distortion temperature. Non flammable.High chemical resistance parts.High dimensionally stable precision parts with low warpage and narrow tolerance range.Gear parts for automotive appliances, body parts, grippers, spacers.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1301-0793-PPS-linear-with-glass-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.67 g/cc	1.67 g/cc	ISO 1183
Water Absorption	<= 0.20 %	<= 0.20 %	23Â°C/24h
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	150 MPa	21800 psi	
Elongation at Yield	1.5 %	1.5 %	
	2.0 %	2.0 %	flexural
Modulus of Elasticity	13.0 GPa	1890 ksi	
Flexural Strength	215 MPa	31200 psi	
Flexural Modulus	11.0 GPa	1600 ksi	
Charpy Impact Unnotched	2.30 J/cm ²	10.9 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

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 Âµm/m-Â°C	13.9 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft ² -Â°F	DIN 52612
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)	265 Â°C	509 Â°F	

Flammability UL 94 Thermal Properties	V-0 Metric	V-0 English	Not recognized by UL Comments
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Electrical Properties	Metric	English	Comments
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Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	
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Processing Properties	Metric	English	Comments
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Processing Temperature	330 Â°C	626 Â°F	mass temp
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Nozzle Temperature	320 - 340 Â°C	608 - 644 Â°F	
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Zone 1	300 - 320 Â°C	572 - 608 Â°F	
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Zone 2	310 - 330 Â°C	590 - 626 Â°F	
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Zone 3	320 - 340 Â°C	608 - 644 Â°F	
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Mold Temperature	150 - 180 Â°C	302 - 356 Â°F	
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Drying Temperature	50.0 - 90.0 Â°C	122 - 194 Â°F	
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	@Time >=14400 sec	@Time >=4.00 hour	
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	100 - 140 Â°C	212 - 284 Â°F	Dehumidifying dryer
	@Time 7200 - 14400 sec	@Time 2.00 - 4.00 hour	

Descriptive Properties	Value	Comments
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Color	natural color (beige)	
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