

Lehmann & Voss LUVOCOM® 1501/CF/30-1 Polysulfone, with carbon fiber

Category : Polymer , Thermoplastic , Polysulfone (PSU) , Polysulfone, Chopped Carbon Fiber Filled

Material Notes:

Applications: Automotive industry, office machinery, medical- and precision engineering. High-strength and high-stiff parts; low coefficient of expansion. Chemical and hydrolysis resistance parts, non flammable. High dimensionally stable precision parts, high continuous use temperature. Electrically conductive, suitable for continuous discharging of statically generated electricity. 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-1501CF30-1-Polysulfone-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	160 MPa	23200 psi	
Elongation at Yield	1.5 %	1.5 %	
	1.9 %	1.9 %	flexural
Modulus of Elasticity	20.0 GPa	2900 ksi	
Flexural Strength	230 MPa	33400 psi	
Flexural Modulus	17.0 GPa	2470 ksi	
Charpy Impact Unnotched	3.00 J/cmÂ²	14.3 ft-lb/inÂ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
CTE, linear	11.0 Âµm/m-Â°C	6.11 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.600 W/m-K	4.16 BTU-in/hr-ftÂ²-Â°F	DIN 52612
Maximum Service Temperature, Air	150 Â°C	302 Â°F	
	170 Â°C	338 Â°F	short term
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Insulation Resistance	$\leq 1000 \text{ ohm}$	$\leq 1000 \text{ ohm}$	

Processing Properties	Metric	English	Comments
Processing Temperature	350 Â°C	662 Â°F	mass temp
Nozzle Temperature	350 - 370 Â°C	662 - 698 Â°F	
Zone 1	330 - 350 Â°C	626 - 662 Â°F	
Zone 2	340 - 360 Â°C	644 - 680 Â°F	
Zone 3	350 - 370 Â°C	662 - 698 Â°F	
Mold Temperature	100 - 150 Â°C	212 - 302 Â°F	
Drying Temperature	140 Â°C @Time 10800 - 14400 sec	284 Â°F @Time 3.00 - 4.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	natural color (black)	

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