

Lehmann & Voss LUVOCOM® 1100/GF/30/NAT Polyether sulfone, with glass fiber

Category : Polymer , Thermoplastic , Polyethersulfone (PES) , Polyethersulfone (PES), 10%Glass Fiber Filled

Material Notes:

Applications: Apparatus- and precision engineering, film- and photo industry, sporting- and leisure goods, medical- and electrical engineering, aircraft- and aerospace industry. High dimensionally stable precision parts, even at elevated temperatures and narrow tolerance range. Especially suitable for medical parts, superheated steam sterilizable, hydrolysis resistance. High quality terminal bar, switches and plugs, relais, lamp reflectors, sterilizable medical equipment. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1100GF30NAT-Polyether-sulfone-with-glass-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.59 g/cc	1.59 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	140 MPa	20300 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.5 %	2.5 %	flexural
Modulus of Elasticity	12.0 GPa	1740 ksi	
Flexural Strength	200 MPa	29000 psi	
Flexural Modulus	10.0 GPa	1450 ksi	
Charpy Impact, Notched	0.900 J/cmÂ²	4.28 ft-lb/inÂ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
CTE, linear	33.0 Âµm/m-Â°C	18.3 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.380 W/m-K	2.64 BTU-in/hr-ftÂ²-Â°F	DIN 52612
Maximum Service Temperature, Air	180 Â°C	356 Â°F	
	200 Â°C	392 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 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
Insulation Resistance	$\geq 1.00 \times 10^{12}$ ohm	$\geq 1.00 \times 10^{12}$ ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	350 Â°C	662 Â°F	mass temp
Nozzle Temperature	340 - 360 Â°C	644 - 680 Â°F	
Zone 1	355 - 375 Â°C	671 - 707 Â°F	
Zone 2	360 - 380 Â°C	680 - 716 Â°F	
Zone 3	350 - 370 Â°C	662 - 698 Â°F	
Mold Temperature	120 - 200 Â°C	248 - 392 Â°F	
Drying Temperature	150 Â°C @Time 10800 - 18000 sec	302 Â°F @Time 3.00 - 5.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	natural color (beige)	

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