

Lehmann & Voss LUVOCOM® 1100-8049 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 thin wall complex parts. 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-1100-8049-Polyether-sulfone-with-glass-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.62 g/cc	1.62 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	140 MPa	20300 psi	
Elongation at Yield	1.8 %	1.8 %	
	2.3 %	2.3 %	flexural
Modulus of Elasticity	11.0 GPa	1600 ksi	
Flexural Strength	205 MPa	29700 psi	
Flexural Modulus	9.00 GPa	1310 ksi	
Charpy Impact Unnotched	4.50 J/cmÂ²	21.4 ft-lb/inÂ²	flatwise; ISO 179 1fU
Charpy Impact, Notched	0.900 J/cmÂ²	4.28 ft-lb/inÂ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
CTE, linear	31.0 Âµm/m-Â°C	17.2 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.330 W/m-K	2.29 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) Thermal Properties	210 Â°C Metric	410 Â°F English	Comments
Vicat Softening Point	220 Â°C	428 Â°F	DIN ISO 306

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

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