

Lehmann & Voss LUVOCOM® 1100-8325 Polyether sulfone, with glass fiber and PTFE

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 enineering, aircraft- and aerospace industry.Improved friction and wear behaviour. Emergency running property.High dimensionally stable precision parts, even at elevated temperatures and narrow tolerance range.Especially suitable for medical parts, superheated steam sterilizable, hydrolysis resistanceHigh 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-1100-8325-Polyether-sulfone-with-glass-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 g/cc	1.70 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0015 - 0.0040 cm/cm	0.0015 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	120 MPa	17400 psi	
Elongation at Yield	1.6 %	1.6 %	
	2.0 %	2.0 %	flexural
Modulus of Elasticity	10.0 GPa	1450 ksi	
Flexural Strength	170 MPa	24700 psi	
Flexural Modulus	8.50 GPa	1230 ksi	
Charpy Impact Unnotched	3.00 J/cmÂ²	14.3 ft-lb/inÂ²	edgewise; ISO 179 1eU
Coefficient of Friction, Dynamic	0.20	0.20	
Coefficient of Friction, Static	0.15	0.15	

Thermal Properties	Metric	English	Comments
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	

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	$\geq 1.00 \times 10^{12}$ ohm	$\geq 1.00 \times 10^{12}$ ohm	
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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