

Lehmann & Voss LUVOCOM[®] 1100-7337/WT Polyether sulfone, unreinforced

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

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. Superheated steam sterilizable. Inherent flame resistance. High quality terminal bar, switches and plugs, relays, 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-1100-7337WT-Polyether-sulfone-unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Å°C/24h
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	90.0 MPa	13100 psi	
Elongation at Yield	6.2 %	6.2 %	
	8.0 %	8.0 %	flexural
Modulus of Elasticity	3.10 GPa	450 ksi	
Flexural Strength	130 MPa	18900 psi	
Flexural Modulus	2.60 GPa	377 ksi	
Charpy Impact Unnotched	9.50 J/cm ^Å 2	45.2 ft-lb/in ^Å 2	flatwise; ISO 179 1fU
Charpy Impact, Notched	0.600 J/cm ^Å 2	2.86 ft-lb/in ^Å 2	ISO 179 1eA
Coefficient of Friction, Dynamic	0.34	0.34	
Coefficient of Friction, Static	0.28	0.28	

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 Åµm/m-Å°C	30.6 Åµin/in-Å°F	DIN 53752
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft ^Å 2-Å°F	DIN 52612
Maximum Service Temperature, Air	180 Å°C	356 Å°F	

Thermal Properties	220 Â°C Metric	428 Â°F English	short term Comments
Deflection Temperature at 1.8 MPa (264 psi)	195 Â°C	383 Â°F	
Vicat Softening Point	215 Â°C	419 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	signal white	

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