

Lehmann & Voss LUVOCOM® 1100-7725 VP Polyether sulfone, with glass fiber, lubricant modified

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-1100-7725-VP-Polyether-sulfone-with-glass-fiber-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	23.2 g/10 min @Load 5.00 kg, Temperature 345 Â°C	23.2 g/10 min @Load 11.0 lb, Temperature 653 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	110 MPa	16000 psi	
Elongation at Yield	4.0 %	4.0 %	
	4.5 %	4.5 %	flexural
Modulus of Elasticity	4.50 GPa	653 ksi	
Flexural Strength	150 MPa	21800 psi	
Flexural Modulus	3.50 GPa	508 ksi	
Charpy Impact Unnotched	4.20 J/cmÂ²	20.0 ft-lb/inÂ²	edgewise; ISO 179 1eU
Coefficient of Friction, Dynamic	0.21	0.21	
Coefficient of Friction, Static	0.20	0.20	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	180 Â°C	356 Â°F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	215 Â°C	419 Â°F	DIN ISO 306
Flammability, UL94	V-0	V-0	not recognized by UL

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	natural color (white)	

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