

Lehmann & Voss LUVOCOM[®] 1100-8301 Polyether sulfone, with carbon fiber, PTFE, lubricant modified

Category : Polymer , Thermoplastic , Polyethersulfone (PES) , Polyethersulfone, Carbon Fiber Reinforced

Material Notes:

Applications: Apparatus- and precision engineering, film- and photo industry, sporting- and leisure goods, medical- and electrical engineering, aircraft- and aerospace industry. Strong, stiff parts. Dynamic stressed parts at high movement velocity. Low warpage. Improved friction and wear behaviour. Emergency running property. Bearings, sleeves, control disks, gear wheels, pump impellers, gear parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1100-8301-Polyether-sulfone-with-carbon-fiber-PTFE-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 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	
Melt Flow	12.08 g/10 min	12.08 g/10 min	
	@Load 5.00 kg, Temperature 345 Â°C	@Load 11.0 lb, Temperature 653 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	90.0 MPa	13100 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.7 %	2.7 %	flexural
Modulus of Elasticity	10.0 GPa	1450 ksi	
Flexural Strength	125 MPa	18100 psi	
Flexural Modulus	8.00 GPa	1160 ksi	
Charpy Impact Unnotched	2.00 J/cm ^Â 2	9.52 ft-lb/in ^Â 2	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.600 J/cm ^Â 2	2.86 ft-lb/in ^Â 2	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	180 Â°C	356 Â°F	
	200 Â°C	392 Â°F	short term

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1.00e+6 ohm	<= 1.00e+6 ohm	
Insulation Resistance	<= 1.00e+6 ohm	<= 1.00e+6 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 (black)	

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