

Lehmann & Voss LUVOCOM[®] 1100-8401 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, 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-1100-8401-Polyether-sulfone-unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.17 g/cc	2.17 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	
Melt Flow	21.7 g/10 min @Load 5.00 kg, Temperature 345 Â°C	21.7 g/10 min @Load 11.0 lb, Temperature 653 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	80.0 MPa	11600 psi	
Elongation at Yield	2.8 %	2.8 %	
	3.3 %	3.3 %	flexural
Modulus of Elasticity	5.50 GPa	798 ksi	
Flexural Strength	115 MPa	16700 psi	
Flexural Modulus	4.50 GPa	653 ksi	
Charpy Impact Unnotched	3.00 J/cmÂ²	14.3 ft-lb/inÂ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.400 J/cmÂ²	1.90 ft-lb/inÂ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	180 Â°C	356 Â°F	
	220 Â°C	428 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	195 Â°C	383 Â°F	

Vicat Softening Point Thermal Properties	215 Â°C Metric	419 Â°F English	DIN ISO 306 Comments
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Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+10 ohm	>= 1.00e+10 ohm	
Insulation Resistance	>= 1.00e+10 ohm	>= 1.00e+10 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)	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China