

Lehmann & Voss LUVOCOM[®] 1100-8166 Polyether sulfone, with glass fiber, easy flowing

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, 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-1100-8166-Polyether-sulfone-with-glass-fiber-easy-flowing.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23Â°C/24h
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	115 MPa	16700 psi	
Elongation at Yield	3.5 %	3.5 %	
	4.8 %	4.8 %	flexural
Modulus of Elasticity	5.50 GPa	798 ksi	
Flexural Strength	160 MPa	23200 psi	
Flexural Modulus	4.50 GPa	653 ksi	
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in 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
Deflection Temperature at 1.8 MPa (264 psi)	210 Â°C	410 Â°F	
Vicat Softening Point	220 Â°C	428 Â°F	DIN ISO 306

Flammability UL 94 Thermal Properties	V-0 Metric	V-0 English	Not recognized by UL Comments
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Electrical Properties	Metric	English	Comments
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Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	
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Processing Properties	Metric	English	Comments
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Processing Temperature	350 Å°C	662 Å°F	mass temp
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Nozzle Temperature	340 - 360 Å°C	644 - 680 Å°F	
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Zone 1	355 - 375 Å°C	671 - 707 Å°F	
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Zone 2	360 - 380 Å°C	680 - 716 Å°F	
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Zone 3	350 - 370 Å°C	662 - 698 Å°F	
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Mold Temperature	120 - 200 Å°C	248 - 392 Å°F	
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Drying Temperature	150 Å°C @Time 10800 - 18000 sec	302 Å°F @Time 3.00 - 5.00 hour	Dehumidifying dryer
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Descriptive Properties	Value	Comments
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Color	natural color (beige)	
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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