

Lehmann & Voss LUVOCOM® 1100/GF/20/EM/MR Polyether sulfone, with glass fiber, easy flowing, demolding aid

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-1100GF20EMMR-Polyether-sulfone-with-glass-fiber-easy-flowing-demolding-aid.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	
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 300 Â°C	15 g/10 min @Load 4.76 lb, Temperature 572 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	120 MPa	17400 psi	
Elongation at Yield	2.5 %	2.5 %	
	4.0 %	4.0 %	flexural
Modulus of Elasticity	6.00 GPa	870 ksi	
Flexural Strength	165 MPa	23900 psi	
Flexural Modulus	5.00 GPa	725 ksi	
Charpy Impact Unnotched	4.50 J/cmÂ²	21.4 ft-lb/inÂ²	flatwise; ISO 179 1fU
Charpy Impact, Notched	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.23	0.23	
Coefficient of Friction, Static	0.23	0.23	

Thermal Properties	Metric	English	Comments
CTE, linear	31.0 $\mu\text{m/m-}^{\circ}\text{C}$	17.2 $\mu\text{in/in-}^{\circ}\text{F}$	DIN 53752
Thermal Conductivity	0.330 W/m-K	2.29 BTU-in/hr-ft 2 - $^{\circ}\text{F}$	DIN 52612
Maximum Service Temperature, Air	180 $^{\circ}\text{C}$	356 $^{\circ}\text{F}$	
	200 $^{\circ}\text{C}$	392 $^{\circ}\text{F}$	short term
Deflection Temperature at 1.8 MPa (264 psi)	210 $^{\circ}\text{C}$	410 $^{\circ}\text{F}$	
Vicat Softening Point	220 $^{\circ}\text{C}$	428 $^{\circ}\text{F}$	DIN ISO 306
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Insulation Resistance	$\geq 1.00\text{e}+12$ ohm	$\geq 1.00\text{e}+12$ ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	350 $^{\circ}\text{C}$	662 $^{\circ}\text{F}$	mass temp
Nozzle Temperature	340 - 360 $^{\circ}\text{C}$	644 - 680 $^{\circ}\text{F}$	
Zone 1	355 - 375 $^{\circ}\text{C}$	671 - 707 $^{\circ}\text{F}$	
Zone 2	360 - 380 $^{\circ}\text{C}$	680 - 716 $^{\circ}\text{F}$	
Zone 3	350 - 370 $^{\circ}\text{C}$	662 - 698 $^{\circ}\text{F}$	
Mold Temperature	120 - 200 $^{\circ}\text{C}$	248 - 392 $^{\circ}\text{F}$	
Drying Temperature	150 $^{\circ}\text{C}$ @Time 10800 - 18000 sec	302 $^{\circ}\text{F}$ @Time 3.00 - 5.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	natural color (beige)	

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