

Lehmann & Voss LUVOCOM[®] 1104/XCF/30 Polyether ketone, with carbon fiber, easy flowing

Category : Polymer , Thermoplastic , Polyketone

Material Notes:

Applications: Automotive industry, mechanical- and precision engineering. Improved strength and stiffness at elevated temperatures. Suitable for discharging of statically generated electricity. Thermic, mechanic and chemical highly stressed parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1104XCF30-Polyether-ketone-with-carbon-fiber-easy-flowing.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23 [°] C/24h
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	335 MPa	48600 psi	
Elongation at Yield	1.7 %	1.7 %	
	2.1 %	2.1 %	flexural
Modulus of Elasticity	34.0 GPa	4930 ksi	
Flexural Strength	465 MPa	67400 psi	
Flexural Modulus	29.0 GPa	4210 ksi	
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	260 [°] C	500 [°] F	
	300 [°] C	572 [°] F	short term
Deflection Temperature at 1.8 MPa (264 psi)	330 [°] C	626 [°] F	
Vicat Softening Point	>= 330 [°] C	>= 626 [°] F	DIN ISO 306

Electrical Properties	Metric	English	Comments
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Surface Resistance Electrical Properties	$\leq 1.00e+6$ ohm Metric	$\leq 1.00e+6$ ohm English	Comments
Insulation Resistance	$\leq 1.00e+6$ ohm	$\leq 1.00e+6$ ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	390 Â°C	734 Â°F	mass temp
Nozzle Temperature	390 - 420 Â°C	734 - 788 Â°F	
Zone 1	370 - 390 Â°C	698 - 734 Â°F	
Zone 2	380 - 420 Â°C	716 - 788 Â°F	
Zone 3	390 - 420 Â°C	734 - 788 Â°F	
Mold Temperature	180 - 230 Â°C	356 - 446 Â°F	
Drying Temperature	140 Â°C @Time 14400 - 57600 sec	284 Â°F @Time 4.00 - 16.0 hour	Dehumidifying dryer
	150 Â°C @Time 14400 - 28800 sec	302 Â°F @Time 4.00 - 8.00 hour	Air-Circulation Dryer

Descriptive Properties	Value	Comments
Color	natural color (black)	

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