

Lehmann & Voss LUVOCOM® 1106-7227 Polyether imide, with carbon fiber and PTFE

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI), Carbon Fiber Filled

Material Notes:

Applications: High-strength and high-stiff parts; low coefficient of expansion.High continuous use and heat distortion temperature. Non flammable.Dynamic stressed parts at high movement velocity.High dimensionally stable precision parts.Electrically conductive, suitable for continuous discharging of statically generated electricity.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1106-7227-Polyether-imide-with-carbon-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ISO 1183
Water Absorption	<= 0.20 %	<= 0.20 %	23Â°C/24h
Linear Mold Shrinkage	0.00050 - 0.0020 cm/cm	0.00050 - 0.0020 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	210 MPa	30500 psi	
Elongation at Yield	1.0 %	1.0 %	
	1.3 %	1.3 %	flexural
Modulus of Elasticity	23.0 GPa	3340 ksi	
Flexural Strength	300 MPa	43500 psi	
Flexural Modulus	20.0 GPa	2900 ksi	
Charpy Impact Unnotched	3.00 J/cmÂ²	14.3 ft-lb/inÂ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.490 W/m-K	3.40 BTU-in/hr-ftÂ²-Â°F	DIN 52612
Maximum Service Temperature, Air	170 Â°C	338 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	208 Â°C	406 Â°F	
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
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Surface Resistance Electrical Properties	≤ 100 ohm Metric	≤ 100 ohm English	Comments
Insulation Resistance	≤ 1000 ohm	≤ 1000 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	380 Â°C	716 Â°F	mass temp
Nozzle Temperature	350 - 400 Â°C	662 - 752 Â°F	
Zone 1	330 - 350 Â°C	626 - 662 Â°F	
Zone 2	340 - 390 Â°C	644 - 734 Â°F	
Zone 3	350 - 400 Â°C	662 - 752 Â°F	
Mold Temperature	150 - 180 Â°C	302 - 356 Â°F	
Drying Temperature	120 Â°C	248 Â°F	Dehumidifying dryer
	@Time ≥ 28800 sec	@Time ≥ 8.00 hour	
	150 Â°C	302 Â°F	or
	@Time ≥ 14400 sec	@Time ≥ 4.00 hour	

Descriptive Properties	Value	Comments
Color	natural color (black)	

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