

Lehmann & Voss LUVOCOM[®] 1106-7622 Polyether imide, with carbon fiber

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.High dimensionally stable precision parts.Electrically conductive, suitable for continuous discharging of statically generated electricity.Bearings, sleeves, control disks, gear wheels, pump impellers, gear parts.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1106-7622-Polyether-imide-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ISO 1183
Water Absorption	<= 0.20 %	<= 0.20 %	23Â°C/24h
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	
Melt Flow	12.24 g/10 min @Load 5.00 kg, Temperature 360 Â°C	12.24 g/10 min @Load 11.0 lb, Temperature 680 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	200 MPa	29000 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.7 %	2.7 %	flexural
Modulus of Elasticity	15.0 GPa	2180 ksi	
Flexural Strength	270 MPa	39200 psi	
Flexural Modulus	12.0 GPa	1740 ksi	
Charpy Impact Unnotched	4.00 J/cmÂ²	19.0 ft-lb/inÂ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	170 Â°C	338 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	200 Â°C	392 Â°F	
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1.00e+6 ohm	<= 1.00e+6 ohm	

Electrical Properties	Metric	English	Comments
Insulation Resistance	1000 - 1.00e+6 ohm	1000 - 1.00e+6 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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