

Lehmann & Voss LUVOCOM[®] 1106/XCF/30 Polyether imide, with carbon fiber, easy flowing

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.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-1106XCF30-Polyether-imide-with-carbon-fiber-easy-flowing.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ISO 1183
Water Absorption	<= 0.20 %	<= 0.20 %	23 [°] C/24h
Linear Mold Shrinkage	0.00050 - 0.0020 cm/cm	0.00050 - 0.0020 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	265 MPa	38400 psi	
Elongation at Yield	1.2 %	1.2 %	
	1.5 %	1.5 %	flexural
Modulus of Elasticity	29.0 GPa	4210 ksi	
Flexural Strength	385 MPa	55800 psi	
Flexural Modulus	25.0 GPa	3630 ksi	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	170 [°] C	338 [°] F	
Deflection Temperature at 1.8 MPa (264 psi)	205 [°] C	401 [°] F	
Flammability, UL94	V-0	V-0	not recognized by UL

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1000 ohm	<= 1000 ohm	

Electrical Properties	Metric	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	black	

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