

Lehmann & Voss LUVOCOM® 1106-7843 Polyether imide, with glass fiber, PTFE, lubricant modified, easy flowing

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI), 10% Glass Fiber

Material Notes:

Applications: Improved friction and wear behaviour. Emergency running property.Strong, stiff parts.Dynamic stressed parts at high movement velocity.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1106-7843-Polyether-imide-with-glass-fiber-PTFE-lubricant-modified-easy-flowing.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.69 g/cc	1.69 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	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	120 MPa	17400 psi	
Elongation at Yield	1.3 %	1.3 %	
	1.7 %	1.7 %	flexural
Modulus of Elasticity	11.0 GPa	1600 ksi	
Flexural Strength	170 MPa	24700 psi	
Flexural Modulus	9.00 GPa	1310 ksi	
Charpy Impact Unnotched	2.10 J/cm ²	9.99 ft-lb/in ²	edgewise; ISO 179 1eU
Coefficient of Friction, Dynamic	0.23	0.23	
Coefficient of Friction, Static	0.26	0.26	

Thermal Properties	Metric	English	Comments
CTE, linear	14.0 µm/m-°C	7.78 µin/in-°F	DIN 53752
Thermal Conductivity	0.500 W/m-K	3.47 BTU-in/hr-ft ² -°F	HOT-DISK 60x60x3 mm
Maximum Service Temperature, Air	170 °C	338 °F	
	200 °C	392 °F	short term
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	205 Å°C Metric	401 Å°F English	Comments
Vicat Softening Point	220 Å°C	428 Å°F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	
Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	

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

Descriptive Properties	Value	Comments
Color	black	

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