

Lehmann & Voss LUVOCOM[®] 1106-8217 Polyether imide, with PTFE, lubricant modified

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

Applications: High continuous use and heat distortion temperature. Non flammable. Dynamic stressed parts at high movement velocity. High dimensionally stable precision parts. Control disks, cams, sliding elements and other duty parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1106-8217-Polyether-imide-with-PTFE-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23Å°C/24h
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	85.0 MPa	12300 psi	
Elongation at Yield	6.0 %	6.0 %	
	7.5 %	7.5 %	flexural
Modulus of Elasticity	3.00 GPa	435 ksi	
Flexural Strength	120 MPa	17400 psi	
Flexural Modulus	2.50 GPa	363 ksi	
Charpy Impact Unnotched	3.00 J/cm ²	14.3 ft-lb/in ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	170 Å°C	338 Å°F	

Electrical Properties	Metric	English	Comments
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 Processing Properties	330 - 350 Å°C Metric	626 - 662 Å°F English	Comments
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	telegrey 4	

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