

Lehmann & Voss LUVOCOM® 1106-8124 Polyether imide, 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. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1106-8124-Polyether-imide-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23Â°C/24h
Linear Mold Shrinkage	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	105 MPa	15200 psi	
Elongation at Yield	4.8 %	4.8 %	
	6.0 %	6.0 %	flexural
Modulus of Elasticity	4.00 GPa	580 ksi	
Flexural Strength	150 MPa	21800 psi	
Flexural Modulus	3.40 GPa	493 ksi	
Charpy Impact Unnotched	5.00 J/cmÂ²	23.8 ft-lb/inÂ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.600 J/cmÂ²	2.86 ft-lb/inÂ²	ISO 179 1eA

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

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+12 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 Processing Properties	330 - 350 Â°C Metric	626 - 662 Â°F English	Comments
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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