

Lehmann & Voss LUVOCOM® 1106-7743 Polyether imide, with PTFE

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-1106-7743-Polyether-imide-with-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23Â°C/24h
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	90.0 MPa	13100 psi	
Elongation at Yield	6.0 %	6.0 %	
	8.0 %	8.0 %	flexural
Modulus of Elasticity	3.00 GPa	435 ksi	
Flexural Strength	130 MPa	18900 psi	
Flexural Modulus	2.50 GPa	363 ksi	
Charpy Impact Unnotched	3.50 J/cmÂ²	16.7 ft-lb/inÂ²	edgewise; ISO 179 1eU

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	330 - 350 Â°C	626 - 662 Â°F	

Zone 2 Processing Properties	340 - 390 Â°C Metric	644 - 734 Â°F English	Comments
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 @Time >=28800 sec	248 Â°F @Time >=8.00 hour	Dehumidifying dryer
	150 Â°C @Time >=14400 sec	302 Â°F @Time >=4.00 hour	or

Descriptive Properties	Value	Comments
Color	ivory	

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