

Lehmann & Voss LUVOCOM[®] 1106-8089/BL Polyether imide, unreinforced, laser markable

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-1106-8089BL-Polyether-imide-unreinforced-laser-markable.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23 [°] C/24h
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	115 MPa	16700 psi	
Elongation at Yield	6.0 %	6.0 %	
	7.8 %	7.8 %	flexural
Modulus of Elasticity	3.50 GPa	508 ksi	
Flexural Strength	165 MPa	23900 psi	
Flexural Modulus	3.00 GPa	435 ksi	
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.550 J/cm ²	2.62 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)	200 [°] C	392 [°] F	
Flammability, UL94	V-0	V-0	not recognized by UL

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	

Electrical Properties	Metric	English	Comments
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	turquoise blue	

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