

Lehmann & Voss LUVOCOM[®] 1-1109 Polyamide 66, with glass fiber and PTFE, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber/PTFE Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. High dimensionally stable precision parts with low warpage and narrow tolerance range. Bearings, sleeves, sliding elements, control disks, gear wheels, duty parts in switches. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1-1109-Polyamide-66-with-glass-fiber-and-PTFE-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23 [°] C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	145 MPa	21000 psi	
Elongation at Yield	2.8 %	2.8 %	
	3.5 %	3.5 %	flexural
Modulus of Elasticity	10.0 GPa	1450 ksi	
Flexural Strength	210 MPa	30500 psi	
Flexural Modulus	8.50 GPa	1230 ksi	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 [°] C	212 [°] F	
	160 [°] C	320 [°] F	short term

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
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Processing Properties	Metric	English	Comments
Nozzle Temperature	280 - 300 Å°C	536 - 572 Å°F	
Zone 1	290 - 310 Å°C	554 - 590 Å°F	
Zone 2	290 - 310 Å°C	554 - 590 Å°F	
Zone 3	290 - 310 Å°C	554 - 590 Å°F	
Mold Temperature	90.0 - 120 Å°C	194 - 248 Å°F	
Drying Temperature	75.0 Å°C @Time 21600 - 57600 sec	167 Å°F @Time 6.00 - 16.0 hour	Dehumidifying dryer
	105 Å°C @Time 14400 - 21600 sec	221 Å°F @Time 4.00 - 6.00 hour	Vacuum Dryer

Descriptive Properties	Value	Comments
Color	natural color (white)	

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