

Lehmann & Voss LUVOCOM® 1/GF/40/TF/13 Polyamide 66, with glass fiber and PTFE

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-1GF40TF13-Polyamide-66-with-glass-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.59 g/cc	1.59 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	
Melt Flow	18 g/10 min @Load 5.00 kg, Temperature 275 Â°C	18 g/10 min @Load 11.0 lb, Temperature 527 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	195 MPa	28300 psi	
Elongation at Yield	4.0 %	4.0 %	
	5.0 %	5.0 %	flexural
Modulus of Elasticity	13.0 GPa	1890 ksi	
Flexural Strength	270 MPa	39200 psi	
Flexural Modulus	10.0 GPa	1450 ksi	
Charpy Impact Unnotched	7.50 J/cmÂ²	35.7 ft-lb/inÂ²	flatwise; ISO 179 1fU
	5.00 J/cmÂ² @Temperature -30.0 Â°C	23.8 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179
Charpy Impact, Notched	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.25	0.25	
Coefficient of Friction, Static	0.20	0.20	

Thermal Properties	Metric	English	Comments
CTE, linear	23.5 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	13.1 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	DIN 53752
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Maximum Service Temperature, Air	90.0 $\text{Å}^\circ\text{C}$	194 $\text{Å}^\circ\text{F}$	
	150 $\text{Å}^\circ\text{C}$	302 $\text{Å}^\circ\text{F}$	short term
Vicat Softening Point	250 $\text{Å}^\circ\text{C}$	482 $\text{Å}^\circ\text{F}$	DIN ISO 306
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Surface Resistance	$\geq 1.00\text{e}+12$ ohm	$\geq 1.00\text{e}+12$ ohm	
Insulation Resistance	$\geq 1.00\text{e}+12$ ohm	$\geq 1.00\text{e}+12$ ohm	

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

Descriptive Properties	Value	Comments
Color	natural color (white)	

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