

Lehmann & Voss LUVOCOM® 1-7233-1 Polyamide 66, with glass fiber, PTFE, lubricant modified, silicone-free

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. Strong, stiff parts. 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-1-7233-1-Polyamide-66-with-glass-fiber-PTFE-lubricant-modified-silicone-free.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 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	180 MPa	26100 psi	
Elongation at Yield	3.3 %	3.3 %	
	4.0 %	4.0 %	flexural
Modulus of Elasticity	10.0 GPa	1450 ksi	
Flexural Strength	260 MPa	37700 psi	
Flexural Modulus	8.50 GPa	1230 ksi	
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	flatwise; ISO 179 1fU
	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.21	0.21	
Coefficient of Friction, Static	0.17	0.17	

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 µm/m-°C	15.0 µin/in-°F	DIN 53752
Thermal Conductivity	0.220 W/m-K	1.53 BTU-in/hr-ft ² -°F	DIN 52612

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	160 °C	320 °F	
	160 °C	320 °F	short term
Vicat Softening Point	245 °C	473 °F	DIN ISO 306

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

Descriptive Properties	Value	Comments
Color	dark grey	

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