

Lehmann & Voss LUVOCOM[®] 1-1129 Polyamide 66, with glass fiber, PTFE, lubricant modified, 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. 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-1-1129-Polyamide-66-with-glass-fiber-PTFE-lubricant-modified-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 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	175 MPa	25400 psi	
Elongation at Yield	3.0 %	3.0 %	
	4.0 %	4.0 %	flexural
Modulus of Elasticity	9.50 GPa	1380 ksi	
Flexural Strength	255 MPa	37000 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 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.14	0.14	
Coefficient of Friction, Static	0.12	0.12	

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 Âµm/m-Â°C	13.9 Âµin/in-Â°F	DIN 53752

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 Å°C	248 Å°F	
	160 Å°C	320 Å°F	short term
Vicat Softening Point	250 Å°C	482 Å°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 Å°C	554 Å°F	mass temp
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	dark grey	

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