

Lehmann & Voss LUVOCOM® 1/GK/30/TF/13/SI/2 Polyamide 66, with glass spheres, PTFE, lubricant modified, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Bead Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. Low warpage, isotropic shrinkage characteristics. 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-1GK30TF13SI2-Polyamide-66-with-glass-spheres-PTFE-lubricant-modified-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.012 - 0.017 cm/cm	0.012 - 0.017 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	60.0 MPa	8700 psi	
Elongation at Yield	3.5 %	3.5 %	
	4.5 %	4.5 %	flexural
Modulus of Elasticity	3.80 GPa	551 ksi	
Flexural Strength	90.0 MPa	13100 psi	
Flexural Modulus	3.00 GPa	435 ksi	
Charpy Impact Unnotched	2.50 J/cmÂ²	11.9 ft-lb/inÂ²	flatwise; ISO 179 1fU
	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	0.400 J/cmÂ²	1.90 ft-lb/inÂ²	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	50.0 Âµm/m-Â°C	27.8 Âµin/in-Â°F	DIN 53752

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	110 Â°C	230 Â°F	
	160 Â°C	320 Â°F	short term
Vicat Softening Point	230 Â°C	446 Â°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 Â°C	554 Â°F	mass temp
Nozzle Temperature	280 - 300 Â°C	536 - 572 Â°F	
Zone 1	290 - 310 Â°C	554 - 590 Â°F	
Zone 2	290 - 310 Â°C	554 - 590 Â°F	
Zone 3	290 - 310 Â°C	554 - 590 Â°F	
Mold Temperature	90.0 - 120 Â°C	194 - 248 Â°F	
Drying Temperature	75.0 Â°C @Time 21600 - 57600 sec	167 Â°F @Time 6.00 - 16.0 hour	Dehumidifying dryer
	105 Â°C @Time 14400 - 21600 sec	221 Â°F @Time 4.00 - 6.00 hour	Vacuum Dryer

Descriptive Properties	Value	Comments
Color	natural color (beige)	

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