

Lehmann & Voss LUVOCOM® 1/TF/18/SI/2/BK Polyamide 66, with PTFE, lubricant modified, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, PTFE Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. 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-1TF18SI2BK-Polyamide-66-with-PTFE-lubricant-modified-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 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	65.0 MPa	9430 psi	
Elongation at Yield	6.0 %	6.0 %	
	8.0 %	8.0 %	flexural
Modulus of Elasticity	2.50 GPa	363 ksi	
Flexural Strength	90.0 MPa	13100 psi	
Flexural Modulus	2.20 GPa	319 ksi	
Charpy Impact Unnotched	5.00 J/cmÂ²	23.8 ft-lb/inÂ²	flatwise; ISO 179 1fU
	4.00 J/cmÂ²	19.0 ft-lb/inÂ²	ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	0.800 J/cmÂ²	3.81 ft-lb/inÂ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.090	0.090	
Coefficient of Friction, Static	0.070	0.070	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	DIN 53752

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 Â°C	248 Â°F	
	140 Â°C	284 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	black	

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