

Lehmann & Voss LUVOCOM® NSB 90 BK Polyamide 66, with PTFE

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-NSB-90-BK-Polyamide-66-with-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.015 - 0.025 cm/cm	0.015 - 0.025 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	60.0 MPa	8700 psi	
Elongation at Yield	10 %	10 %	
Modulus of Elasticity	2.40 GPa	348 ksi	
Flexural Strength	100 MPa	14500 psi	
Flexural Modulus	2.70 GPa	392 ksi	
Charpy Impact Unnotched	4.80 J/cmÂ²	22.8 ft-lb/inÂ²	flatwise; ISO 179 1fU
Charpy Impact, Notched	0.800 J/cmÂ²	3.81 ft-lb/inÂ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.18	0.18	
Coefficient of Friction, Static	0.13	0.13	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ftÂ²-Â°F	DIN 52612
Maximum Service Temperature, Air	100 Â°C	212 Â°F	
	140 Â°C	284 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Â°C	203 Â°F	

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Surface Resistance	$\geq 1.00 \times 10^{12}$ ohm	$\geq 1.00 \times 10^{12}$ ohm	
Insulation Resistance	$\geq 1.00 \times 10^{12}$ ohm	$\geq 1.00 \times 10^{12}$ 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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