

Lehmann & Voss LUVOCOM[®] 1-7177 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-1-7177-Polyamide-66-with-PTFE-lubricant-modified-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23 [°] C/24h
Linear Mold Shrinkage	0.015 - 0.025 cm/cm	0.015 - 0.025 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	65.0 MPa	9430 psi	
Elongation at Yield	7.0 %	7.0 %	
	7.0 %	7.0 %	flexural
Modulus of Elasticity	3.00 GPa	435 ksi	
Flexural Strength	100 MPa	14500 psi	
Flexural Modulus	2.50 GPa	363 ksi	
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	flatwise; ISO 179 1fU
	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179
	@Temperature -30.0 [°] C	@Temperature -22.0 [°] F	
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 μ m/m- [°] C	33.3 μ in/in- [°] F	DIN 53752
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ft ² - [°] F	DIN 52612

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	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	slate grey	

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