

Lehmann & Voss LUVOCOM® 1-8227 Polyamide 66, lubricant modified

Category : Polymer , Thermoplastic , Nylon , Nylon 66

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-1-8227-Polyamide-66-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23°C/24h
Linear Mold Shrinkage	0.012 - 0.017 cm/cm	0.012 - 0.017 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	80.0 MPa	11600 psi	
Elongation at Yield	4.6 %	4.6 %	
	6.0 %	6.0 %	flexural
Modulus of Elasticity	4.00 GPa	580 ksi	
Flexural Strength	115 MPa	16700 psi	
Flexural Modulus	3.00 GPa	435 ksi	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	110 °C	230 °F	
	160 °C	320 °F	short term
Vicat Softening Point	220 °C	428 °F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+10 ohm	>= 1.00e+10 ohm	
Insulation Resistance	>= 1.00e+10 ohm	>= 1.00e+10 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	290 °C	554 °F	mass temp
Nozzle Temperature	280 - 300 °C	536 - 572 °F	
Zone 1	290 - 310 °C	554 - 590 °F	
Zone 2	290 - 310 °C	554 - 590 °F	
Zone 3	290 - 310 °C	554 - 590 °F	
Mold Temperature	90.0 - 120 °C	194 - 248 °F	
Drying Temperature	75.0 °C @Time 21600 - 57600 sec	167 °F @Time 6.00 - 16.0 hour	Dehumidifying dryer
	105 °C @Time 14400 - 21600 sec	221 °F @Time 4.00 - 6.00 hour	Vacuum Dryer

Descriptive Properties	Value	Comments
Color	dark grey	

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