

Lehmann & Voss LUVOCOM® 1-7497 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-1-7497-Polyamide-66-with-PTFE-lubricant-modified-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23°C/24h
Linear Mold Shrinkage	0.015 - 0.020 cm/cm	0.015 - 0.020 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	65.0 MPa	9430 psi	
Elongation at Yield	8.5 %	8.5 %	
	11 %	11 %	flexural
Modulus of Elasticity	3.00 GPa	435 ksi	
Flexural Strength	90.0 MPa	13100 psi	
Flexural Modulus	2.00 GPa	290 ksi	
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	flatwise; ISO 179 1fU
Coefficient of Friction, Dynamic	0.080	0.080	
Coefficient of Friction, Static	0.060	0.060	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ft ² -°F	DIN 52612
Maximum Service Temperature, Air	120 °C	248 °F	
	160 °C	320 °F	short term
Vicat Softening Point	230 °C	446 °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 °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	black-grey	

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