

Lehmann & Voss LUVOCOM® 1-7180/EG Polyamide 66, with carbon fiber, PTFE, lubricant modified, high viscosity, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Carbon Fiber/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-1-7180EG-Polyamide-66-with-carbon-fiber-PTFE-lubricant-modified-high-viscosity-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 %	23Â°C/24h
Linear Mold Shrinkage	0.0080 - 0.016 cm/cm	0.0080 - 0.016 in/in	
Melt Flow	8.0 g/10 min @Load 5.00 kg, Temperature 275 Â°C	8.0 g/10 min @Load 11.0 lb, Temperature 527 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	87.0 MPa	12600 psi	
Elongation at Yield	4.9 %	4.9 %	
	6.0 %	6.0 %	flexural
Modulus of Elasticity	4.90 GPa	711 ksi	
Flexural Strength	125 MPa	18100 psi	
Flexural Modulus	4.00 GPa	580 ksi	
Charpy Impact Unnotched	6.50 J/cmÂ²	30.9 ft-lb/inÂ²	flatwise; ISO 179 1fU
Coefficient of Friction, Dynamic	0.090	0.090	
Coefficient of Friction, Static	0.070	0.070	

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 Âµm/m-Â°C	30.6 Âµin/in-Â°F	DIN 53752
Maximum Service Temperature, Air	110 Â°C	230 Â°F	

Thermal Properties	160 Â°C Metric	320 Â°F English	short term Comments
Vicat Softening Point	220 Â°C	428 Â°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 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	dark grey	

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