

Lehmann & Voss LUVOCOM[®] 1-0867 Polyamide 66, with aramid reinforcement and PTFE, lubricant modified, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Aramid Fiber Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. Low warpage, isotropic shrinkage characteristics. Improved heat resistance. Control disks, cams, sliding elements and other duty parts. Information provided by Lehmann & Voss & Co. KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1-0867-Polyamide-66-with-aramid-reinforcement-and-PTFE-lubricant-modified-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.0060 - 0.012 cm/cm	0.0060 - 0.012 in/in	
Melt Flow	13 g/10 min @Load 5.00 kg, Temperature 275 Â°C	13 g/10 min @Load 11.0 lb, Temperature 527 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	85.0 MPa	12300 psi	
Elongation at Yield	3.8 %	3.8 %	
	4.5 %	4.5 %	flexural
Modulus of Elasticity	5.00 GPa	725 ksi	
Flexural Strength	120 MPa	17400 psi	
Flexural Modulus	4.00 GPa	580 ksi	
Charpy Impact Unnotched	3.00 J/cm ²	14.3 ft-lb/in ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.13	0.13	
Coefficient of Friction, Static	0.11	0.11	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 Â°C	248 Â°F	

Thermal Properties	140 Â°C Metric	284 Â°F English	short term Comments
Deflection Temperature at 1.8 MPa (264 psi)	240 Â°C	464 Â°F	

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+13 ohm	>= 1.00e+13 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	dark grey	

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