

Lehmann & Voss LUVOCOM[®] 19-8373 Polyamide 46, with carbon fiber, lubricant modified

Category : Polymer , Thermoplastic , Nylon , Nylon 46

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Strong, stiff parts. Reduced moment of inertia compared with metal parts. Antistatic. Improved friction and wear behaviour. Emergency running property. 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-19-8373-Polyamide-46-with-carbon-fiber-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23 [°] C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	115 MPa	16700 psi	
Elongation at Yield	1.2 %	1.2 %	
	1.4 %	1.4 %	flexural
Modulus of Elasticity	17.0 GPa	2470 ksi	
Flexural Strength	155 MPa	22500 psi	
Flexural Modulus	16.0 GPa	2320 ksi	
Charpy Impact Unnotched	1.70 J/cm ²	8.09 ft-lb/in ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 [°] C	302 [°] F	
	160 [°] C	320 [°] F	short term

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 1.00e+7 ohm	>= 1.00e+7 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	310 [°] C	590 [°] F	mass temp

Processing Properties	Metric	English	Comments
Zone 1	285 - 315 Â°C	545 - 599 Â°F	
Zone 2	305 - 315 Â°C	581 - 599 Â°F	
Zone 3	305 - 315 Â°C	581 - 599 Â°F	
Mold Temperature	120 - 140 Â°C	248 - 284 Â°F	
Drying Temperature	80.0 Â°C @Time 7200 - 43200 sec	176 Â°F @Time 2.00 - 12.0 hour	Vacuum Dryer
	80.0 Â°C @Time 7200 - 28800 sec	176 Â°F @Time 2.00 - 8.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	black	

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