

Lehmann & Voss LUVOCOM[®] 19-8073 Polyamide 46, with aramid reinforcement and PTFE

Category : Polymer , Thermoplastic , Nylon , Nylon 46

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Good friction and wear behaviour especially at increased temperatures. 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-19-8073-Polyamide-46-with-aramid-reinforcement-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.011 - 0.018 cm/cm	0.011 - 0.018 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	85.0 MPa	12300 psi	
Elongation at Yield	6.0 %	6.0 %	
	8.5 %	8.5 %	flexural
Modulus of Elasticity	3.50 GPa	508 ksi	
Flexural Strength	120 MPa	17400 psi	
Flexural Modulus	3.00 GPa	435 ksi	
Charpy Impact Unnotched	3.80 J/cm ^Â 2	18.1 ft-lb/in ^Â 2	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.400 J/cm ^Â 2	1.90 ft-lb/in ^Â 2	ISO 179 1eA

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

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	310 Â°C	590 Â°F	mass temp
Nozzle Temperature	280 - 330 Â°C	536 - 626 Â°F	
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	176 Â°F	Vacuum Dryer
	@Time 7200 - 43200 sec	@Time 2.00 - 12.0 hour	
	80.0 Â°C	176 Â°F	Dehumidifying dryer
	@Time 7200 - 28800 sec	@Time 2.00 - 8.00 hour	

Descriptive Properties	Value	Comments
Color	natural color (yellow)	

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