

Lehmann & Voss LUVOCOM® 19-7748 Polyamide 46, with carbon fiber, PTFE, 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. Electrically conductive, suitable for continuous discharging of statically generated electricity. Improved friction and wear behaviour. Emergency running property. Gear parts for automotive appliances, control disks, cams, sliding elements. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-19-7748-Polyamide-46-with-carbon-fiber-PTFE-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.0030 - 0.0080 cm/cm	0.0030 - 0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	165 MPa	23900 psi	
Elongation at Yield	2.5 %	2.5 %	
	3.3 %	3.3 %	flexural
Modulus of Elasticity	11.0 GPa	1600 ksi	
Flexural Strength	235 MPa	34100 psi	
Flexural Modulus	9.00 GPa	1310 ksi	
Charpy Impact Unnotched	3.20 J/cmÂ²	15.2 ft-lb/inÂ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 Â°C	302 Â°F	
	160 Â°C	320 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	270 Â°C	518 Â°F	

Electrical Properties	Metric	English	Comments
Insulation Resistance	100 ohm	100 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 (black)	

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