

Lehmann & Voss LUVOCOM[®] 19/CF/30 Polyamide 46, with carbon fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 46

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. High-strength and high-stiff parts; low coefficient of expansion. Reduced moment of inertia compared with metal parts. Electrically conductive, suitable for continuous discharging of statically generated electricity. 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-19CF30-Polyamide-46-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	240 MPa	34800 psi	
Elongation at Yield	1.5 %	1.5 %	
	1.8 %	1.8 %	flexural
Modulus of Elasticity	22.0 GPa	3190 ksi	
Flexural Strength	345 MPa	50000 psi	
Flexural Modulus	19.0 GPa	2760 ksi	
Charpy Impact Unnotched	4.90 J/cm ²	23.3 ft-lb/in ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 Âµm/m-Â°C	11.1 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ft ² - Â°F	DIN 52612
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)	>= 290 Â°C	>= 554 Â°F	

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1000 ohm	<= 1000 ohm	
Insulation Resistance	<= 10000 ohm	<= 10000 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 @Time 7200 - 28800 sec	176 Â°F @Time 2.00 - 8.00 hour	Dehumidifying dryer
	80.0 Â°C @Time 7200 - 43200 sec	176 Â°F @Time 2.00 - 12.0 hour	Vacuum Dryer

Descriptive Properties	Value	Comments
Color	natural color (black)	

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