

Lehmann & Voss LUVOCOM® 19/XCF/20 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-19XCF20-Polyamide-46-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	270 MPa	39200 psi	
Elongation at Yield	2.2 %	2.2 %	
	2.9 %	2.9 %	flexural
Modulus of Elasticity	19.0 GPa	2760 ksi	
Flexural Strength	385 MPa	55800 psi	
Flexural Modulus	16.0 GPa	2320 ksi	
Charpy Impact Unnotched	7.00 J/cmÂ²	33.3 ft-lb/inÂ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.800 J/cmÂ²	3.81 ft-lb/inÂ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 Â°C	302 Â°F	
	170 Â°C	338 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	<= 100 ohm	<= 100 ohm	

Insulation Resistance Electrical Properties	≤ 100 ohm Metric	≤ 100 ohm English	Comments
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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	black	

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