

Lehmann & Voss LUVOCOM® 1/XCF/30 Polyamide 66, with carbon fiber, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Carbon Fiber Filled

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. High dimensionally stable precision parts with low warpage and narrow tolerance range. 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-1XCF30-Polyamide-66-with-carbon-fiber-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23°C/24h
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	310 MPa	45000 psi	
Elongation at Yield	2.2 %	2.2 %	
	2.6 %	2.6 %	flexural
Modulus of Elasticity	25.0 GPa	3630 ksi	
Flexural Strength	435 MPa	63100 psi	
Flexural Modulus	21.0 GPa	3050 ksi	
Charpy Impact Unnotched	9.50 J/cm ²	45.2 ft-lb/in ²	edgewise; ISO 179 1eU
	9.00 J/cm ²	42.8 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
CTE, linear	14.0 µm/m-°C	7.78 µin/in-°F	DIN 53752
Thermal Conductivity	0.500 W/m-K	3.47 BTU-in/hr-ft ² -°F	DIN 52612

Maximum Service Temperature, Air Thermal Properties	120 Å°C Metric	248 Å°F English	Comments
	160 Å°C	320 Å°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	250 Å°C	482 Å°F	

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1000 ohm	<= 1000 ohm	
Insulation Resistance	<= 1000 ohm	<= 1000 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	290 Å°C	554 Å°F	mass temp
Nozzle Temperature	280 - 300 Å°C	536 - 572 Å°F	
Zone 1	290 - 310 Å°C	554 - 590 Å°F	
Zone 2	290 - 310 Å°C	554 - 590 Å°F	
Zone 3	290 - 310 Å°C	554 - 590 Å°F	
Mold Temperature	90.0 - 120 Å°C	194 - 248 Å°F	
Drying Temperature	75.0 Å°C @Time 21600 - 57600 sec	167 Å°F @Time 6.00 - 16.0 hour	Dehumidifying dryer
	105 Å°C @Time 14400 - 21600 sec	221 Å°F @Time 4.00 - 6.00 hour	Vacuum Dryer

Descriptive Properties	Value	Comments
Color	natural color (black)	

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