

Lehmann & Voss LUVOCOM® 1/XCF/20 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-1XCF20-Polyamide-66-with-carbon-fiber-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 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	290 MPa	42100 psi	
Elongation at Yield	2.7 %	2.7 %	
	3.4 %	3.4 %	flexural
Modulus of Elasticity	20.0 GPa	2900 ksi	
Flexural Strength	415 MPa	60200 psi	
Flexural Modulus	17.0 GPa	2470 ksi	
Charpy Impact Unnotched	8.80 J/cmÂ²	41.9 ft-lb/inÂ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
CTE, linear	15.0 Âµm/m-Â°C	8.33 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.500 W/m-K	3.47 BTU-in/hr-ftÂ²-Â°F	DIN 52612
Maximum Service Temperature, Air	120 Â°C	248 Â°F	
	160 Â°C	320 Â°F	short term
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	250 Â°C Metric	482 Â°F English	Comments
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Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1e+05	<= 1e+05	
Insulation Resistance	<= 100000 ohm	<= 100000 ohm	

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

Descriptive Properties	Value	Comments
Color	natural color (black)	

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