

Lehmann & Voss LUVOCOM® 20/XCF/30 Polyphthalamide, with carbon fiber

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 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. Electrically conductive, suitable for continuous discharging of statically generated electricity. Low influence from moisture and temperature to measures and electrical properties, compared with PA66. Suitable for metall inserts. Bearings, sleeves, sliding elements, control disks, gear wheels, duty parts in switches. Information provided by Lehmann & Voss & Co. KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-20XCF30-Polyphthalamide-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23Â°C/24h
Linear Mold Shrinkage	0.00 - 0.0010 cm/cm	0.00 - 0.0010 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	365 MPa	52900 psi	
Elongation at Yield	1.8 %	1.8 %	
	2.3 %	2.3 %	flexural
Modulus of Elasticity	30.0 GPa	4350 ksi	
Flexural Strength	500 MPa	72500 psi	
Flexural Modulus	26.0 GPa	3770 ksi	
Charpy Impact Unnotched	7.50 J/cmÂ²	35.7 ft-lb/inÂ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.900 J/cmÂ²	4.28 ft-lb/inÂ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	165 Â°C	329 Â°F	
	195 Â°C	383 Â°F	short term
Deflection Temperature at 1.8 MPa (264 psi)	270 Â°C	518 Â°F	

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

Insulation Resistance Electrical Properties	$\leq 1000 \text{ ohm}$ Metric	$\leq 1000 \text{ ohm}$ English	Comments
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Processing Properties	Metric	English	Comments
Processing Temperature	330 Â°C	626 Â°F	mass temp
Nozzle Temperature	320 - 330 Â°C	608 - 626 Â°F	
Zone 1	320 - 340 Â°C	608 - 644 Â°F	
Zone 2	320 - 345 Â°C	608 - 653 Â°F	
Zone 3	325 - 350 Â°C	617 - 662 Â°F	
Mold Temperature	135 - 160 Â°C	275 - 320 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	Dehumidifying dryer
	@Time 57600 sec	@Time 16.0 hour	
	105 Â°C	221 Â°F	Vacuum Dryer
	@Time 14400 - 18000 sec	@Time 4.00 - 5.00 hour	

Descriptive Properties	Value	Comments
Color	natural color (black)	

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