

Lehmann & Voss LUVOCOM® 20-7970 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 metal 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-20-7970-Polyphthalamide-with-carbon-fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23Â°C/24h
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	175 MPa	25400 psi	
Elongation at Yield	1.2 %	1.2 %	
	1.5 %	1.5 %	flexural
Modulus of Elasticity	23.0 GPa	3340 ksi	
Flexural Strength	255 MPa	37000 psi	
Flexural Modulus	20.0 GPa	2900 ksi	
Charpy Impact Unnotched	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	flatwise; ISO 179 1fU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	165 Â°C	329 Â°F	
	195 Â°C	383 Â°F	short term

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 10 ohm	<= 10 ohm	
Insulation Resistance	<= 100 ohm	<= 100 ohm	

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
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	graphite grey	

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