

Lehmann & Voss LUVOCOM[®] 20-0659 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. Low influence from moisture and temperature to measures and electrical properties, compared with PA66. Suitable for metall inserts. Improved friction and wear behaviour. Emergency running property. 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-20-0659-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 %	23Å°C/24h
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	275 MPa	39900 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.0 %	2.0 %	flexural
Modulus of Elasticity	25.0 GPa	3630 ksi	
Flexural Strength	360 MPa	52200 psi	
Flexural Modulus	23.0 GPa	3340 ksi	
Charpy Impact Unnotched	5.50 J/cm ^Å ²	26.2 ft-lb/in ^Å ²	edgewise; ISO 179 1eU
	5.00 J/cm ^Å ²	23.8 ft-lb/in ^Å ²	ISO 179
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Charpy Impact, Notched	0.800 J/cm ^Å ²	3.81 ft-lb/in ^Å ²	ISO 179 1eA

Thermal Properties	Metric	English	Comments
CTE, linear	13.0 Åµm/m-Å°C	7.22 Åµin/in-Å°F	DIN 53752
Thermal Conductivity	0.480 W/m-K	3.33 BTU-in/hr-ft ^Å ²-Å°F	DIN 52612
Maximum Service Temperature, Air	165 Å°C	329 Å°F	

Thermal Properties	195 Â°C Metric	383 Â°F English	short term Comments
Deflection Temperature at 1.8 MPa (264 psi)	275 Â°C	527 Â°F	

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

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 @Time 57600 sec	176 Â°F @Time 16.0 hour	Dehumidifying dryer
	105 Â°C @Time 14400 - 18000 sec	221 Â°F @Time 4.00 - 5.00 hour	Vacuum Dryer

Descriptive Properties	Value	Comments
Color	natural color (black)	

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