

Lehmann & Voss LUVOCOM[®] 20-7868 Polyphthalamide, with carbon fiber and glass 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

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http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-20-7868-Polyphthalamide-with-carbon-fiber-and-glass-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	0.00050 - 0.0030 cm/cm	0.00050 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	300 MPa	43500 psi	
Elongation at Yield	1.5 %	1.5 %	
	2.0 %	2.0 %	flexural
Modulus of Elasticity	28.0 GPa	4060 ksi	
Flexural Strength	435 MPa	63100 psi	
Flexural Modulus	25.0 GPa	3630 ksi	
Charpy Impact Unnotched	6.00 J/cm ^Â 2	28.6 ft-lb/in ^Â 2	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.800 J/cm ^Â 2	3.81 ft-lb/in ^Â 2	ISO 179 1eA
Coefficient of Friction, Dynamic	0.28	0.28	
Coefficient of Friction, Static	0.20	0.20	

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) Thermal Properties	250 Å°C Metric	482 Å°F English	Comments
Vicat Softening Point	285 Å°C	545 Å°F	DIN ISO 306

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

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

Descriptive Properties	Value	Comments
Color	natural color (black)	

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