

Lehmann & Voss LUVOCOM® 20-0778 Polyphthalamide, with glass fiber and PTFE

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), Glass/PTFE 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 metal 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-20-0778-Polyphthalamide-with-glass-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.55 g/cc	1.55 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23°C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	225 MPa	32600 psi	
Elongation at Yield	3.0 %	3.0 %	
	3.5 %	3.5 %	flexural
Modulus of Elasticity	12.0 GPa	1740 ksi	
Flexural Strength	310 MPa	45000 psi	
Flexural Modulus	11.0 GPa	1600 ksi	
Charpy Impact Unnotched	7.50 J/cm ²	35.7 ft-lb/in ²	edgewise; ISO 179 1eU
	6.80 J/cm ²	32.4 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.18	0.18	
Coefficient of Friction, Static	0.15	0.15	

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 µm/m-°C	13.9 µin/in-°F	DIN 53752

Thermal Properties Thermal Conductivity	Metric W/m-K	English U-in/hr-ftÂ°- Â°	Comments DIN 52612
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	
Vicat Softening Point	295 Â°C	563 Â°F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+12 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 (beige)	

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