

Lehmann & Voss LUVOCOM[®] 20-0778/BK 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-20-0778BK-Polyphthalamide-with-glass-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.56 g/cc	1.56 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23 [°] C/24h
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	195 MPa	28300 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.5 %	2.5 %	flexural
Modulus of Elasticity	12.0 GPa	1740 ksi	
Flexural Strength	275 MPa	39900 psi	
Flexural Modulus	10.0 GPa	1450 ksi	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	flatwise; ISO 179 1fU
	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179
	@Temperature -30.0 [°] C	@Temperature -22.0 [°] F	
Coefficient of Friction, Dynamic	0.18	0.18	
Coefficient of Friction, Static	0.15	0.15	

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

Thermal Properties Tensile strength at 1.8 MPa (264 psi)	Metric °C	English °F	Comments
Vicat Softening Point	295 °C	563 °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 °C	626 °F	mass temp
Nozzle Temperature	320 - 330 °C	608 - 626 °F	
Zone 1	320 - 340 °C	608 - 644 °F	
Zone 2	320 - 345 °C	608 - 653 °F	
Zone 3	325 - 350 °C	617 - 662 °F	
Mold Temperature	135 - 160 °C	275 - 320 °F	
Drying Temperature	80.0 °C @Time 57600 sec	176 °F @Time 16.0 hour	Dehumidifying dryer
	105 °C @Time 14400 - 18000 sec	221 °F @Time 4.00 - 5.00 hour	Vacuum Dryer

Descriptive Properties	Value	Comments
Color	black	

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