

Lehmann & Voss LUVOCOM® 20-8114 Polyphthalamide, with carbon fiber, lubricant modified

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), Carbon Fiber Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Strong, stiff parts. Dynamic stressed parts at high movement velocity. Improved friction and wear behaviour. Emergency running property. Bearings, sleeves, control disks, gear wheels, pump impellers, gear parts. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-20-8114-Polyphthalamide-with-carbon-fiber-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23Â°C/24h
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	155 MPa	22500 psi	
Elongation at Yield	1.5 %	1.5 %	
	1.9 %	1.9 %	flexural
Modulus of Elasticity	12.0 GPa	1740 ksi	
Flexural Strength	220 MPa	31900 psi	
Flexural Modulus	10.0 GPa	1450 ksi	
Charpy Impact Unnotched	2.60 J/cmÂ²	12.4 ft-lb/inÂ²	edgewise; ISO 179 1eU

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	<= 1.00e+9 ohm	<= 1.00e+9 ohm	
Insulation Resistance	<= 1.00e+9 ohm	<= 1.00e+9 ohm	

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
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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