

Lehmann & Voss LUVOCOM[®] 20-7796 Polyphthalamide, with aramid reinforcement and PTFE

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

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. 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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-20-7796-Polyphthalamide-with-aramid-reinforcement-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23Â°C/24h
Linear Mold Shrinkage	0.0070 - 0.014 cm/cm	0.0070 - 0.014 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	80.0 MPa	11600 psi	
Elongation at Yield	2.8 %	2.8 %	
	3.8 %	3.8 %	flexural
Modulus of Elasticity	4.00 GPa	580 ksi	
Flexural Strength	115 MPa	16700 psi	
Flexural Modulus	3.40 GPa	493 ksi	
Charpy Impact Unnotched	1.90 J/cm ²	9.04 ft-lb/in ²	flatwise; ISO 179 1fU

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
Insulation Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	

Processing Properties	Metric	English	Comments
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Processing Temperature Processing Properties	330 Â°C Metric	626 Â°F English	mass temp Comments
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 (yellow)	

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