

## Lehmann & Voss LUVOCOM<sup>®</sup> 20-7913 Polyphthalamide, with carbon fiber

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. 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-20-7913-Polyphthalamide-with-carbon-fiber.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-20-7913-Polyphthalamide-with-carbon-fiber.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	150 MPa	21800 psi	
Elongation at Yield	1.5 %	1.5 %	
	2.0 %	2.0 %	flexural
Modulus of Elasticity	13.0 GPa	1890 ksi	
Flexural Strength	215 MPa	31200 psi	
Flexural Modulus	11.0 GPa	1600 ksi	

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
Processing Temperature	330 Â°C	626 Â°F	mass temp
Nozzle Temperature	320 - 330 Â°C	608 - 626 Â°F	

Processing Properties	Metric	English	Comments
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 (black)	

## Contact Songhan Plastic Technology Co.,Ltd.

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