

## Lehmann & Voss LUVOCOM<sup>®</sup> 20-7314 Polyphthalamide, with PTFE

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

### 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-20-7314-Polyphthalamide-with-PTFE.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-20-7314-Polyphthalamide-with-PTFE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ISO 1183
Water Absorption	<= 0.30 %	<= 0.30 %	23Å°C/24h
Linear Mold Shrinkage	0.0090 - 0.012 cm/cm	0.0090 - 0.012 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	61.0 MPa	8850 psi	
Elongation at Yield	2.0 %	2.0 %	
	2.5 %	2.5 %	flexural
Modulus of Elasticity	4.00 GPa	580 ksi	
Flexural Strength	85.0 MPa	12300 psi	
Flexural Modulus	3.00 GPa	435 ksi	
Charpy Impact Unnotched	2.50 J/cm <sup>Å</sup> 2	11.9 ft-lb/in <sup>Å</sup> 2	flatwise; ISO 179 1fU
	2.30 J/cm <sup>Å</sup> 2	10.9 ft-lb/in <sup>Å</sup> 2	ISO 179
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
Coefficient of Friction, Dynamic	0.20	0.20	
Coefficient of Friction, Static	0.14	0.14	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	165 Å°C	329 Å°F	
	195 Å°C	383 Å°F	short term
Vicat Softening Point	275 Å°C	527 Å°F	DIN ISO 306

Thermal Properties	Metric	English	Comments
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	white	

## Contact Songhan Plastic Technology Co.,Ltd.

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