

## Lehmann & Voss LUVOCOM® 19-7276 Polyamide 46, with carbon fiber and PTFE

Category : Polymer , Thermoplastic , Nylon , Nylon 46

### Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. High-strength and high-stiff parts; low coefficient of expansion. Reduced moment of inertia compared with metal parts. Electrically conductive, suitable for continuous discharging of statically generated electricity. Gear parts for automotive appliances, control disks, cams, sliding elements. Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lehmann-Voss-LUVOCOM-19-7276-Polyamide-46-with-carbon-fiber-and-PTFE.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-19-7276-Polyamide-46-with-carbon-fiber-and-PTFE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	240 MPa	34800 psi	
Elongation at Yield	1.5 %	1.5 %	
	2.0 %	2.0 %	flexural
Modulus of Elasticity	24.0 GPa	3480 ksi	
Flexural Strength	340 MPa	49300 psi	
Flexural Modulus	20.0 GPa	2900 ksi	
Charpy Impact Unnotched	5.50 J/cmÂ²	26.2 ft-lb/inÂ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.900 J/cmÂ²	4.28 ft-lb/inÂ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.19	0.19	
Coefficient of Friction, Static	0.14	0.14	

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 Âµm/m-Â°C	12.2 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.420 W/m-K	2.91 BTU-in/hr-ftÂ²-Â°F	DIN 52612
Maximum Service Temperature, Air	150 Â°C	302 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 290 Â°C	>= 554 Â°F	
Vicat Softening Point	290 Â°C	554 Â°F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 10000 ohm	<= 10000 ohm	
Insulation Resistance	<= 100000 ohm	<= 100000 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	310 Â°C	590 Â°F	mass temp
Nozzle Temperature	280 - 330 Â°C	536 - 626 Â°F	
Zone 1	285 - 315 Â°C	545 - 599 Â°F	
Zone 2	305 - 315 Â°C	581 - 599 Â°F	
Zone 3	305 - 315 Â°C	581 - 599 Â°F	
Mold Temperature	120 - 140 Â°C	248 - 284 Â°F	
Drying Temperature	80.0 Â°C @Time 7200 - 43200 sec	176 Â°F @Time 2.00 - 12.0 hour	Vacuum Dryer
	80.0 Â°C @Time 7200 - 28800 sec	176 Â°F @Time 2.00 - 8.00 hour	Dehumidifying dryer

Descriptive Properties	Value	Comments
Color	natural color (black)	

## Contact Songhan Plastic Technology Co.,Ltd.

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