

## Lehmann & Voss LUVOCOM<sup>®</sup> 19-7416 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. Strong, stiff parts. 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-19-7416-Polyamide-46-with-carbon-fiber-and-PTFE.php](http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-19-7416-Polyamide-46-with-carbon-fiber-and-PTFE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	
Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 300 Â°C	12 g/10 min @Load 4.76 lb, Temperature 572 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	200 MPa	29000 psi	
Elongation at Yield	2.2 %	2.2 %	
	2.6 %	2.6 %	flexural
Modulus of Elasticity	13.0 GPa	1890 ksi	
Flexural Strength	275 MPa	39900 psi	
Flexural Modulus	12.0 GPa	1740 ksi	
Charpy Impact Unnotched	5.00 J/cmÂ²	23.8 ft-lb/inÂ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.600 J/cmÂ²	2.86 ft-lb/inÂ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.20	0.20	
Coefficient of Friction, Static	0.16	0.16	

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 Âµm/m-Â°C	11.1 Âµin/in-Â°F	DIN 53752
		2.43 BTU-in/hr-ftÂ²-	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 °C	302 °F	
	160 °C	320 °F	short term
Deflection Temperature at 1.8 MPa (264 psi)	>= 290 °C	>= 554 °F	
Vicat Softening Point	290 °C	554 °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 °C	590 °F	mass temp
Nozzle Temperature	280 - 330 °C	536 - 626 °F	
Zone 1	285 - 315 °C	545 - 599 °F	
Zone 2	305 - 315 °C	581 - 599 °F	
Zone 3	305 - 315 °C	581 - 599 °F	
Mold Temperature	120 - 140 °C	248 - 284 °F	
Drying Temperature	80.0 °C @Time 7200 - 43200 sec	176 °F @Time 2.00 - 12.0 hour	Vacuum Dryer
	80.0 °C @Time 7200 - 28800 sec	176 °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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