

Lehmann & Voss LUVOCOM[®] 46/CF/15 Polyamide 46, with carbon fiber, heat stabilized

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-46CF15-Polyamide-46-with-carbon-fiber-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23 [°] C/24h
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	220 MPa	31900 psi	
Elongation at Yield	2.5 %	2.5 %	
	3.0 %	3.0 %	flexural
Modulus of Elasticity	12.0 GPa	1740 ksi	
Flexural Strength	315 MPa	45700 psi	
Flexural Modulus	10.0 GPa	1450 ksi	
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.26	0.26	
Coefficient of Friction, Static	0.22	0.22	

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 μ m/m- [°] C	11.1 μ in/in- [°] F	DIN 53752
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ft ² - [°] F	DIN 52612
Maximum Service Temperature, Air	150 [°] C	302 [°] F	

Thermal Properties	160 Â°C Metric	320 Â°F English	short term 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)	

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