

Lehmann & Voss LUVOCOM[®] 1t-7370 Polyamide 6/6T, with carbon fiber, toughness-modified

Category : Polymer , Thermoplastic , Nylon , Nylon 6

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-1t-7370-Polyamide-66T-with-carbon-fiber-toughness-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ISO 1183
Water Absorption	<= 0.80 %	<= 0.80 %	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	210 MPa	30500 psi	
Elongation at Yield	2.5 %	2.5 %	
	3.2 %	3.2 %	flexural
Modulus of Elasticity	13.0 GPa	1890 ksi	
Flexural Strength	290 MPa	42100 psi	
Flexural Modulus	10.0 GPa	1450 ksi	
Charpy Impact Unnotched	6.30 J/cm ²	30.0 ft-lb/in ²	edgewise; ISO 179 1eU
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179 1eA
Coefficient of Friction, Dynamic	0.24	0.24	
Coefficient of Friction, Static	0.20	0.20	

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 μ m/m- [°] C	15.0 μ in/in- [°] F	DIN 53752
Thermal Conductivity	0.380 W/m-K	2.64 BTU-in/hr-ft ² - [°] F	DIN 52612
Maximum Service Temperature, Air	135 [°] C	275 [°] F	

Thermal Properties	160 Â°C Metric	320 Â°F English	short term Comments
Vicat Softening Point	280 Â°C	536 Â°F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 1e+05	<= 1e+05	
Insulation Resistance	<= 100000 ohm	<= 100000 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	330 Â°C	626 Â°F	mass temp
Nozzle Temperature	330 - 340 Â°C	626 - 644 Â°F	
Zone 1	300 - 340 Â°C	572 - 644 Â°F	
Zone 2	310 - 340 Â°C	590 - 644 Â°F	
Zone 3	320 - 340 Â°C	608 - 644 Â°F	
Mold Temperature	90.0 - 120 Â°C	194 - 248 Â°F	
Drying Temperature	80.0 Â°C @Time 21600 - 57600 sec	176 Â°F @Time 6.00 - 16.0 hour	Dehumidifying dryer
	110 Â°C @Time 14400 - 21600 sec	230 Â°F @Time 4.00 - 6.00 hour	or

Descriptive Properties	Value	Comments
Color	natural color (black)	

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