Lehmann & Voss LUVOCOMÂ® 1/CF/20/TF/5 Polyamide 66, with carbon fiber and PTFE, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Carbon Fiber/PTFE Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering.High-strength and high-stiff parts; low coefficient of expansion.Improved friction and wear behaviour. Emergency running property.Electrically conductive, suitable for continuous discharging of statically generated electricity.High dimensionally stable precision parts with low warpage and narrow tolerance range.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-1CF20TF5-Polyamide-66-with-carbon-fiber-and-PTFE-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 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	

Mechanical Properties	Metric	English	Comments
Tensile Stress	210 MPa	30500 psi	
Elongation at Yield	3.0 %	3.0 %	
	4.0 %	4.0 %	flexural
Modulus of Elasticity	13.0 GPa	1890 ksi	
Flexural Strength	300 MPa	43500 psi	
Flexural Modulus	11.0 GPa	1600 ksi	
Charpy Impact Unnotched	3.50 J/cmÂ²	16.7 ft-lb/inÂ²	flatwise; ISO 179 1fU
	3.00 J/cmÂ² @Temperature -30.0 Â°C	14.3 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179
Charpy Impact, Notched	1.10 J/cmÂ²	5.23 ft-lb/inÂ²	ISO 179 1eA
	0.600 J/cmÂ² @Temperature -30.0 Â°C	2.86 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179 eA
Coefficient of Friction, Dynamic	0.18	0.18	

Mechanical Properties	Metric	English	Comments
Coefficient of Friction, Static	0.15	0.15	

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 Âµm/m-Â°C	10.0 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.430 W/m-K	2.98 BTU-in/hr-ftÂ²-Â°F	DIN 52612
Maximum Service Temperature, Air	120 Â°C	248 Â°F	
	160 Â°C	320 Â°F	short term

Electrical Properties	Metric	English	Comments
Surface Resistance	1000 ohm	1000 ohm	
Insulation Resistance	100000 ohm	100000 ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	290 Â°C	554 Â°F	mass temp
Nozzle Temperature	280 - 300 Â°C	536 - 572 Â°F	
Zone 1	290 - 310 Â°C	554 - 590 Â°F	
Zone 2	290 - 310 Â°C	554 - 590 Â°F	
Zone 3	290 - 310 Â°C	554 - 590 Â°F	
Mold Temperature	90.0 - 120 Â°C	194 - 248 Â°F	
Drying Temperature	75.0 Â°C @Time 21600 - 57600 sec	167 Â°F @Time 6.00 - 16.0 hour	Dehumidifying dryer
	105 Â°C @Time 14400 - 21600 sec	221 Â°F @Time 4.00 - 6.00 hour	Vacuum Dryer

Descriptive Properties	Value	Comments
Color	natural color (black)	

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