

Lehmann & Voss LUVOCOM[®] 1/CF/10/GK/20/TF/5/BK Polyamide 66, with carbon fiber, glass spheres and PTFE, heat stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass/Carbon Fiber 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, even at elevated temperatures 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-1CF10GK20TF5BK-Polyamide-66-with-carbon-fiber-glass-spheres-and-PTFE-heat-stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ISO 1183
Water Absorption	<= 1.0 %	<= 1.0 %	23Â°C/24h
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	170 MPa	24700 psi	
Elongation at Yield	2.5 %	2.5 %	
	3.4 %	3.4 %	flexural
Modulus of Elasticity	11.0 GPa	1600 ksi	
Flexural Strength	255 MPa	37000 psi	
Flexural Modulus	9.00 GPa	1310 ksi	
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	flatwise; ISO 179 1fU
Coefficient of Friction, Dynamic	0.20	0.20	
Coefficient of Friction, Static	0.17	0.17	

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 Âµm/m-Â°C	16.7 Âµin/in-Â°F	DIN 53752
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft ² -Â°F	DIN 52612
Maximum Service Temperature, Air	120 Â°C	248 Â°F	

Thermal Properties	Metric 160 Â°C	English 320 Â°F	Comments short term
Vicat Softening Point	253 Â°C	487 Â°F	DIN ISO 306

Electrical Properties	Metric	English	Comments
Surface Resistance	10000 ohm	10000 ohm	
Insulation Resistance	1000 ohm	1000 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	black	

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