

LUVOCOM® 1/CF/10/GK/20/TF/5/BK

LEHVOSS Group - Polyamide 66

General Information
Product Description

with carbon fibers, glass spheres and PTFE, heat stabilized; black

Main Features

- Electrically conductive, suitable for continuous discharging of statically-generated electricity.
- Improved friction and wear behaviour. Optimised for dry running operations.
- Very strong and stiff parts; low coefficient of thermal expansion.
- High dimensionally stable precision parts, even at elevated temperatures and narrow tolerance range.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Carbon Fiber	• Glass Bead	
Additive	• Heat Stabilizer	• PTFE Lubricant	
Features	• Electrically Conductive	• High Stiffness	• Lubricated
	• Heat Stabilized	• High Strength	• Wear Resistant
	• High Dimensional Stability	• Low CLTE	
	• High Heat Resistance	• Low Friction	
Appearance	• Black		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Molding Shrinkage			DIN 16742
Across Flow	1.1 to 1.3	%	
Flow	0.20 to 0.40	%	
Water Absorption (24 hr, 73°F)	< 1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.60E+6	psi	ISO 527-1/1
Tensile Stress	24700	psi	ISO 527-2
Tensile Strain (Yield)	2.5	%	ISO 527-2/50
Flexural Modulus ²	1.31E+6	psi	ISO 178
Flexural Stress ³	37000	psi	ISO 178
Flexural Strain - (Yield) ⁴	3.4	%	ISO 178
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature ⁵	248	°F	IEC 60216
Vicat Softening Temperature	487	°F	ISO 306/A
CLTE - Flow	1.7E-5	in/in/°F	ISO 11359-2
Service Temperature - during lifetime max. 200 hr	320	°F	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4	ohms	IEC 62631-3-2
Insulation Resistance ⁶	1.0E+3	ohms	IEC 62631-3-3

Processing Information

Injection	Nominal Value	Unit
Drying Temperature		
Desiccant Dryer, A	167	°F
Vacuum Dryer, B	221	°F
Drying Time		



Desiccant Dryer, A	6.0 to 16 hr
Vacuum Dryer, B	4.0 to 6.0 hr
Rear Temperature	554 to 590 °F
Middle Temperature	554 to 590 °F
Front Temperature	554 to 590 °F
Nozzle Temperature	536 to 572 °F
Processing (Melt) Temp	554 °F
Mold Temperature	194 to 248 °F

Injection Notes

During processing, the moisture level should not exceed 0.01%, otherwise molecular degradation may occur. As the material absorbs water very quickly, the predried material should be fed to the processing immediately. The processing notes provided merely represent a recommendation for general use. Due to the large variety of machines, geometries and volumes of parts, etc., it may be necessary to employ different settings according to the specific application. Please contact us for further information.

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.079 in/min

³ 0.39 in/min

⁴ 10 mm/min

⁵ 20,000 hr

⁶ strip electrode R25

