

LUVOTECH® 1-9435

LEHVOSS Group - Polyamide 66

General Information
Product Description

with carbon fibers and PTFE, heat stabilized; natural color (black)

Main Features

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

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Water Absorption (24 hr, 73°F)	< 1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2.03E+6	psi	ISO 527-1/1
Tensile Stress	30000	psi	ISO 527-2
Tensile Strain (Yield)	2.5	%	ISO 527-2/50
Flexural Modulus ²	1.89E+6	psi	ISO 178
Flexural Stress ³	44400	psi	ISO 178
Flexural Strain - (Yield) ⁴	3.1	%	ISO 178
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	464	°F	ISO 75-2/A
Continuous Use Temperature ⁵	248	°F	IEC 60216
CLTE - Flow	1.0E-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+3	ohms	IEC 62631-3-2
Insulation Resistance ⁶	< 1.0E+5	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
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

