LUVOCOM® 19-7669

LEHVOSS Group - *Polyamide 46*

General Information

Product Description

with glass fibers and PTFE; natural color (beige)

Main Features

- Improved friction and wear behaviour. Optimised for dry running operations.
- Strong, stiff parts.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Additive	• PTFE Lubricant		
Features	• High Stiffness • High Strength	• Low Friction • Lubricated	• Wear Resistant
Appearance	• Beige		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm³	ISO 1183
Molding Shrinkage			DIN 16742
Across Flow	0.90 to 1.2	%	
Flow	0.30 to 0.50	%	
Water Absorption (24 hr, 73°F)	1.5	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1.45E+6	psi	ISO 527-1/1
Tensile Stress	21800	psi	ISO 527-2
Tensile Strain (Yield)	2.1	%	ISO 527-2/50
Flexural Modulus [2]	1.16E+6	psi	ISO 178
Flexural Stress [3]	32600	psi	ISO 178
Flexural Strain - (Yield) [4]	2.7	%	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	4.8	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength	21	ft·lb/in²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	545	°F	ISO 75-2/A
Continuous Use Temperature [5]	302	°F	IEC 60216
Vicat Softening Temperature	554	°F	ISO 306/A
Service Temperature - during lifetime max. 200 hr	464	°F	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+12	ohms	IEC 62631-3-2
Insulation Resistance [6]	> 1.0E+12	ohms	IEC 62631-3-3

Processing Information

Injection	Nominal Value	Unit
Drying Temperature		
Desiccant Dryer, A	176	°F
Vacuum Dryer, B	176	°F
Drying Time		

Desiccant Dryer, A	2.0 to 8.0	hr
Vacuum Dryer, B	2.0 to 12	hr
Rear Temperature	545 to 590	°F
Middle Temperature	545 to 599	°F
Front Temperature	572 to 608	°F
Nozzle Temperature	554 to 608	°F
Processing (Melt) Temp	590	°F
Mold Temperature	194 to 266	°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