

LUVOCOM® LFT 1-50789GF07NT

LEHVOSS Group - Polyamide 66

General Information

Product Description

with glass fibers, toughness-modified, heat stabilized; natural color (white); 7 mm pellet

Main Features

- Strong, stiff, impact-resistant parts.
- Especially suitable for dynamic-stress situations.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Additive	• Heat Stabilizer	• Impact Modifier	
Features	• Heat Stabilized • High Impact Resistance	• High Stiffness • High Strength	• Impact Modified
Appearance	• White		
Forms	• Pellets		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm ³	ISO 1183
Water Absorption (24 hr, 73°F)	< 1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	972000	psi	ISO 527-1/1
Tensile Stress	23900	psi	ISO 527-2
Tensile Strain (Yield)	3.8	%	ISO 527-2/50
Flexural Modulus ²	914000	psi	ISO 178
Flexural Stress ³	33400	psi	ISO 178
Flexural Strain - (Yield) ⁴	4.6	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
--	10	ft·lb/in ²	
-22°F	9.0	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
--	40	ft·lb/in ²	
-22°F	41	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature ⁵	230	°F	IEC 60216
Service Temperature - during lifetime max. 200 hr	302	°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
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature		
--	221	°F



Desiccant Dryer, A	167 °F
Drying Time	
--	4.0 to 6.0 hr
Desiccant Dryer, A	6.0 to 16 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

