LUVOCOM® LFT 22-50777CF10NT

LEHVOSS Group - *Polyamide 66 + PA 6I/6T*

General Information

Product Description

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

Main Features

- Strong, stiff, impact-resistant parts.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber		
Additive	• Heat Stabilizer		
Features	• Heat Stabilized • High Impact Resistance	• High Stiffness • High Strength	
Appearance	• Black		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm³	ISO 1183
Water Absorption (24 hr, 73°F)	< 1.0	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3.26E+6	psi	ISO 527-1/1
Tensile Stress	45000	psi	ISO 527-2
Tensile Strain (Yield)	1.8	%	ISO 527-2/50
Flexural Modulus [2]	3.05E+6	psi	ISO 178
Flexural Stress [3]	61600	psi	ISO 178
Flexural Strain - (Yield) [4]	2.5	%	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
--	6.7	ft·lb/in²	
-22°F	6.7	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
--	36	ft·lb/in²	
-22°F	33	ft·lb/in²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	486	°F	ISO 75-2/A
Continuous Use Temperature [5]	230	°F	IEC 60216
Service Temperature - during lifetime max. 200 hr	302	°F	

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