LUVOCOM® 1100/GF/30/NAT

Polyethersulfone

Lehmann & Voss & Co.

Message:

LUVOCOM® 1100/GF/30/NAT is a polyethersulfone (PES) material, which contains a 30% glass fiber reinforced material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

Glass fiber reinforced material, 30% filler by weight

LUVOCOM® The main features of 1100/GF/30/NAT are:

flame retardant/rated flame

sterilizable

Good dimensional stability

Typical application areas include:

Electrical/electronic applications

Reflector

engineering/industrial accessories

Aerospace

Sporting goods

General Information
Filler / Reinforcement

Features	Good dimensional stability				
. 5513. 55	Good disinfection				
	Hydrolysis resistance				
	Disinfect with steam				
Uses	Electrical/Electronic Applications				
	Reflector				
	Engineering accessories				
	Aerospace applications				
	Switch				
	Sporting goods				
	Medical/nursing supplies				
Appearance	Natural color				
Physical	Nominal Value	Unit	Test Method		
Density	1.59	g/cm³	ISO 1183		
Molding Shrinkage	0.20 - 0.40	%	DIN 16901		
Water Absorption (23°C, 24 hr)	< 0.10	%			
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	12000	МРа	ISO 527-2		
Tensile Stress (Break)	140	MPa	ISO 527-2		
Tensile Strain (Yield)	2.0	%	ISO 527-2		
Flexural Modulus	10000	МРа	ISO 178		
Flexural Stress	200	MPa	ISO 178		
Flexural Strain at Flexural Strength	2.5	%	ISO 178		

Maximum operating temperature-Short Term	200	°C	
			IFC CO4.C7
Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	210	°C	ISO 75-2/A
Continuous Use Temperature	180	°C	UL 746B
CLTE - Flow	3.3E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.38	W/m/K	DIN 52612
Flammability	Nominal Value	Unit	Test Method
Flame Rating ¹	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	150	°C	
Drying Time - Desiccant Dryer	3.0 - 5.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	355 - 375	°C	
Middle Temperature	360 - 380	°C	
Front Temperature	350 - 370	°C	
Nozzle Temperature	340 - 360	°C	
Processing (Melt) Temp	350	°C	
Mold Temperature	120 - 200	°C	
Injection instructions			

General

In general LUVOCOM® can be processed on conventional injection moulding machines while observing the usual technical guidelines.

Any added fibrous materials or fillers may have an abrasive effect. In this case the cylinder and screw should be protected against wear as is usual in the processing of reinforced thermoplastic materials.

Lengthy dwell times for the melts in the cylinder should be avoided.

Lower the temperatures during interruptions!

Predrying (optional)

It is advisable to predry the granulate with a suitable dryer immediately before processing.

The granulate may absorb moisture from the air.

Delivery Form & Storage

Unless indicated otherwise, the material is delivered as 3mm-long pellets in sealed bags on pallets.

Preferably storage should be effected in dry and normally temperatured rooms

Additional Information

During processing the moisture level should not exceed 0.05%, otherwise porosity and surface defects (e.g. smearing) may occur. To avoid internal stresses, a low shear load should be used for processing. The parts may be tempered at a later stage to reduce internal stresses.

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.

High-temperature polymers place increased demands on the tool steels employed.

Please contact us for further information.

NOTE

1.

Not recognized by UL.

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