LUVOCOM® 1100/GF/20/EM/MR

Polyethersulfone

Lehmann & Voss & Co.

Message:

LUVOCOM®1100/GF/20/EM/MR is a polyethersulfone (PES) material, which contains a 20% glass fiber reinforced material. This product is available in Europe.
LUVOCOM®The main characteristics of 1100/GF/20/EM/MR are:
flame retardant/rated flame
sterilizable
Good dimensional stability
mold release agent
Typical application areas include:
Electrical/electronic applications
engineering/industrial accessories
Reflector
Aerospace
Sporting goods

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	demoulding		
Features	Good dimensional stability Good disinfection Good liquidity Hydrolysis resistance Disinfect with steam		
Uses	Thin wall parts Electrical/Electronic Applications Reflector Engineering accessories Aerospace applications Switch Sporting goods Medical/nursing supplies		
Appearance	Natural color		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.50	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/2.16 kg)	10.0	cm³/10min	ISO 1133
Molding Shrinkage	0.30 - 0.50	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.10	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Modulus	6000	MPa	ISO 527-2
Tensile Stress (Break)	120	MPa	ISO 527-2
Tensile Strain (Yield)	2.5	%	ISO 527-2
Flexural Modulus	5000	MPa	ISO 178
Flexural Stress	165	MPa	ISO 178
Coefficient of Friction			
Dynamic	0.23		
Static	0.23		
Flexural Strain at Flexural Strength	4.0	%	ISO 178
Maximum operating temperature-Short Term	200	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	10	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	kJ/m^2	ISO 179/1fU
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
Vicat Softening Temperature	220	°C	ISO 306/A
CLTE - Flow	3.1E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.33	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.

Recommended distributors for this material

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