LUVOCOM® 1100/XCF/40

Polyethersulfone

LEHVOSS Group

Message:

LUVOCOM®1100/XCF/40 is a polyethersulfone (PES) material, which contains a 40% carbon fiber reinforced material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.
LUVOCOM®The main features of 1100/XCF/40 are:
Conductivity
sterilizable
Good dimensional stability
Heat resistance
Typical application areas include:
Electrical/electronic applications
Movie
Reflector
engineering/industrial accessories
Aerospace

General Information	
Filler / Reinforcement	Carbon fiber reinforced material, 40% filler by weight
Features	Good dimensional stability Conductivity Good disinfection Static conduction Heat resistance, high Disinfect with steam
Uses	Films Plug Electrical/Electronic Applications Reflector Aerospace applications Switch Sporting goods Medical/nursing supplies
Appearance	Black

Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm³	ISO 1183
Molding Shrinkage	0.050 - 0.30	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.10	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	35000	MPa	ISO 527-2
Tensile Stress (Break)	235	MPa	ISO 527-2

Tensile Strain (Yield)	1.0	%	ISO 527-2
Flexural Modulus	28000	MPa	ISO 178
Flexural Stress	357	MPa	ISO 178
Flexural Strain at Flexural Strength	1.3	%	ISO 178
Maximum operating temperature-Short Term	200	°C	
Insulation Resistance		ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	36	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Continuous Use Temperature	180	°C	UL 746B
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	< 1.0E+4	ohms	IEC 60093
Injection	**Nominal Value**	**Unit**	
Drying Temperature - Desiccant Dryer	150	°C	
Drying Time - Desiccant Dryer	3.0 - 5.0	hr	
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.

Recommended distributors for this material

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