LUVOCOM® 1100-8944

Polyethersulfone

Lehmann & Voss & Co.

Message:

LUVOCOM® 1100-8944 is a polyethersulfone (PES) material containing a mineral filler. This product is available in Europe.
LUVOCOM® The main features of 1100-8944 are:
anti-warping
Good stiffness
Typical application areas include:
engineering/industrial accessories
Electrical/electronic applications
Aerospace
Sporting goods
medical/health care

General Information	
Filler / Reinforcement	Mineral filler
Features	Low warpage
	Rigid, good
	Good strength
Uses	Pump parts
	Bushing
	Gear
	Electrical/Electronic Applications
	Engineering accessories
	Aerospace applications
	Sporting goods
	Medical/nursing supplies
	Bearing
Appearance	Natural color

Physical	Nominal Value	Unit	Test Method
Density	1.70	g/cm³	ISO 1183
Molding Shrinkage	0.30 - 0.50	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.10	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9000	MPa	ISO 527-2
Tensile Stress (Break)	75.0	MPa	ISO 527-2
Tensile Strain (Yield)	1.8	%	ISO 527-2
Flexural Modulus	14000	MPa	ISO 178
Flexural Stress	135	MPa	ISO 178
Flexural Strain at Flexural Strength	1.1	%	ISO 178

Maximum operating temperature-Short Term	200	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	9.0	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	220	°C	ISO 75-2/A
Continuous Use Temperature	180	°C	UL 746B
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+12	ohms	IEC 60093
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.

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