LUVOCOM® 1106-8600

Polyether Imide

LEHVOSS Group

Message:

LUVOCOM®1106-8600 is a polyetherimide (PEI) material, and the filler is glass 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 1106-8600 are:
Flame Retardant
Good stiffness

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Rigid, good Good strength Flame retardancy		
Appearance	Natural color		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.51	g/cm³	ISO 1183
Molding Shrinkage	0.15 - 0.35	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.30	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	11000	MPa	ISO 527-2
Tensile Stress (Break)	175	MPa	ISO 527-2
Tensile Strain (Yield)	2.1	%	ISO 527-2
Flexural Modulus	9500	MPa	ISO 178
Flexural Stress	245	MPa	ISO 178
Flexural Strain at Flexural Strength	2.9	%	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)	44	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	205	°C	ISO 75-2/A
Continuous Use Temperature	170	°C	UL 746B
Vicat Softening Temperature	220	°C	ISO 306/A
CLTE - Flow	2.0E-5	cm/cm/°C	DIN 53752
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+12	ohms	IEC 60093
Injection	**Nominal Value**	**Unit**	

Drying Temperature		
Hot air dryer, A	120	°C
Hot air dryer, B	150	°C
Drying Time		
Hot air dryer, A	> 8.0	hr
Hot air dryer, B	> 4.0	hr
Rear Temperature	330 - 350	°C
Middle Temperature	340 - 390	°C
Front Temperature	350 - 400	°C
Nozzle Temperature	350 - 400	°C
Processing (Melt) Temp	380	°C
Mold Temperature	150 - 180	°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 0.03%, otherwise porosity and surface defects (e.g. smearing) may occur. Predrying is recommended even when sealed original containers are being used. To avoid internal stresses, a low shear load should be used for processing.
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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