LUVOCOM® 1106/XCF/25/EM

Polyether Imide

Lehmann & Voss & Co.

Message:

LUVOCOM®1106/XCF/25/EM is a polyetherimide (PEI) material, which contains a 25% carbon fiber reinforced material. This product is available in Europe.
LUVOCOM®The main features of 1106/XCF/25/EM are:
Flame Retardant
Conductivity
High stiffness
high strength
Electrostatic protection
LUVOCOM®Typical application fields of 1106/XCF/25/EM are: engineering/industrial accessories

General Information	
Filler / Reinforcement	Carbon fiber reinforced material, 25% filler by weight
Features	Conductivity Rigidity, high High strength Electrostatic discharge protection Good liquidity Heat resistance, high Flame retardancy
Uses	Pump parts Bushing Gear Bearing
Appearance	Natural color

Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (380°C/2.16 kg)	8.00	cm³/10min	ISO 1133
Molding Shrinkage	0.050 - 0.20	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.20	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	25000	MPa	ISO 527-2
Tensile Stress (Break)	255	MPa	ISO 527-2
Tensile Strain (Yield)	1.4	%	ISO 527-2
Flexural Modulus	23000	MPa	ISO 178
Flexural Stress	360	MPa	ISO 178
Flexural Strain at Flexural Strength	1.7	%	ISO 178

Insulation Resistance		ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	43	kJ/m^2	ISO 179/1eU
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	< 1.0E+3	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	
Suggested Max Moisture	0.030	%	
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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