LUVOCOM® 6/CF/30

Polyamide 12

Lehmann & Voss & Co.

Message:

LUVOCOM®6/CF/30 is a polyamide 12 (nylon 12) material, and the filler is 30% 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 6/CF/30 are:
Conductivity
Electrostatic protection
Good dimensional stability
Good stiffness
moisture resistance
Typical application areas include:
engineering/industrial accessories
textile/fiber
Automotive Industry
business/office supplies
Handle

General Information	
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight
Features	Good dimensional stability Conductivity Rigid, good Electrostatic discharge protection Good strength Low or no water absorption
Uses	Handle Textile applications Engineering accessories Roller Application in Automobile Field Business equipment Bearing
Appearance	Natural color

Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm³	ISO 1183
Molding Shrinkage	0.10 - 0.40	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.10	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16000	MPa	ISO 527-2
Tensile Stress (Break)	165	MPa	ISO 527-2

Tensile Strain (Yield)	3.7	%	ISO 527-2
Flexural Modulus	14000	MPa	ISO 178
Flexural Stress	240	MPa	ISO 178
Flexural Strain at Flexural Strength	5.0	%	ISO 178
Maximum operating temperature-Short Term	140	°C	
Insulation Resistance		ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	18	kJ/m^2	ISO 179/1eA
23°C	20	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1fU
-30°C	50	kJ/m^2	ISO 179/1fU
23°C	55	kJ/m^2	ISO 179/1fU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Continuous Use Temperature	90.0	°C	UL 746B
Vicat Softening Temperature	170	°C	ISO 306/A
CLTE - Flow	2.5E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.50	W/m/K	DIN 52612
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	< 1.0E+2	ohms	IEC 60093
Injection	**Nominal Value**	**Unit**	
Drying Temperature			
A	75.0	°C	
B	105	°C	
Drying time-A	6.0 - 10	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	230 - 250	°C	
Middle Temperature	240 - 260	°C	
Front Temperature	250 - 270	°C	
Nozzle Temperature	250 - 260	°C	
Processing (Melt) Temp	250	°C	
Mold Temperature	70.0 - 110	°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 0.1%, otherwise molecular degradation and surface defects (e.g. smearing) may occur. As the material absorbs water rapidly, originally sealed containers should only be opened immediately before processing. Excessively high predrying temperatures may cause discoloration.
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.
Please contact us for further information.

Recommended distributors for this material

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