LUVOCOM® 50/CF/10/GF/20/BK

Polycarbonate

Lehmann & Voss & Co.

Message:

LUVOCOM®50/CF/10/GF/20/BK is a polycarbonate (PC) material, which contains fillers of 20% glass fiber reinforced materials and 10% carbon fiber reinforced materials. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.
LUVOCOM®The main characteristics of 50/CF/10/GF/20/BK are:
Conductivity
High stiffness
high strength
Electrostatic protection
Good dimensional stability
Typical application areas include:
engineering/industrial accessories
business/office supplies
Sporting goods
medical/health care

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight Carbon fiber reinforced material, 10% filler by weight
Features	Good dimensional stability Conductivity Rigidity, high High strength Electrostatic discharge protection
Uses	Gear Engineering accessories Business equipment Sporting goods Medical/nursing supplies
Appearance	Black

Physical	Nominal Value	Unit	Test Method
Density	1.39	g/cm³	ISO 1183
Molding Shrinkage	0.20 - 0.40	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.20	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ISO 527-2
Tensile Stress (Break)	150	MPa	ISO 527-2
Tensile Strain (Yield)	2.0	%	ISO 527-2
Flexural Modulus	9500	MPa	ISO 178

Flexural Stress	225	MPa	ISO 178
Coefficient of Friction			
Dynamic	0.23		
Static	0.21		
Flexural Strain at Flexural Strength	2.5	%	ISO 178
Maximum operating temperature-Short Term	150	°C	
Insulation Resistance		ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	10	kJ/m^2	ISO 179/1eA
23°C	12	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1fU
-30°C	30	kJ/m^2	ISO 179/1fU
23°C	35	kJ/m^2	ISO 179/1fU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Continuous Use Temperature	130	°C	UL 746B
Vicat Softening Temperature	160	°C	ISO 306/A
CLTE - Flow	2.2E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.42	W/m/K	DIN 52612
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	< 1.0E+5	ohms	IEC 60093
Injection	**Nominal Value**	**Unit**	
Drying Temperature	120	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	280 - 300	°C	
Middle Temperature	290 - 310	°C	
Front Temperature	300 - 320	°C	
Nozzle Temperature	290 - 310	°C	
Processing (Melt) Temp	295	°C	
Mold Temperature	80.0 - 120	°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 0.02%, otherwise molecular degradation may occur.
Suitable heat treatment may increase resistance to the formation of stress cracks.
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.

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Recommended distributors for this material

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