

LUVOCOM® 50/CF/20

Polycarbonate

Lehmann & Voss & Co.

Message:

LUVOCOM® 50/CF/20 is a polycarbonate (PC) material, and the filler is 20% 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 50/CF/20 are:

Conductivity

Electrostatic protection

anti-warping

Good dimensional stability

Good stiffness

Typical application areas include:

engineering/industrial accessories

business/office supplies

Sporting goods

medical/health care

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 20% filler by weight		
Features	Good dimensional stability		
	Conductivity		
	Low warpage		
	Rigid, good		
	Electrostatic discharge protection		
Uses	Good strength		
	Gear		
	Engineering accessories		
	Business equipment		
	Sporting goods		
Appearance	Medical/nursing supplies		
	Black		
Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm ³	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	8300	MPa	ISO 527-2
Tensile Stress (Break)	92.0	MPa	ISO 527-2
Tensile Strain (Yield)	2.4	%	ISO 527-2
Flexural Modulus	7500	MPa	ISO 178
Flexural Stress	135	MPa	ISO 178

Coefficient of Friction			
Dynamic	0.21		
Static	0.13		
Flexural Strain at Flexural Strength	3.2	%	ISO 178
Maximum operating temperature-Short Term	150	°C	
Insulation Resistance		ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	35	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	130	°C	UL 746B
Vicat Softening Temperature	160	°C	ISO 306/A
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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