LUVOCOM® 50/CF/15/TF/15/SI/2/BK

Polycarbonate

Lehmann & Voss & Co.

Message:

LUVOCOM® 50/CF/15/TF/15/SI/2/BK is a polycarbonate (PC) material, which contains a 15% 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 characteristics of 50/CF/15/TF/15/SI/2/BK are:

Lubrication

Conductivity

High stiffness

high strength

Electrostatic protection

Typical application areas include:

engineering/industrial accessories

business/office supplies

Sporting goods

medical/health care

General Information				
Filler / Reinforcement	Carbon fiber reinforced material, 15% filler by weight			
Additive	PTFE lubricant (15%)			
	Silicone lubricant (2%)			
Features	Good dimensional stability			
	Conductivity			
	Low friction coefficient			
	Rigidity, high			
	High strength			
	Electrostatic discharge protection			
	Good wear resistance			
	Lubrication			
Uses	Gear			
	Engineering accessories			
	Business equipment			
	Sporting goods			
	Medical/nursing supplies			
Appearance	Black			
Physical	Nominal Value	Unit	Test Method	
Density	1.36	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	10000	MPa	ISO 527-2
Tensile Stress (Break)	105	MPa	ISO 527-2
Tensile Strain (Yield)	2.2	%	ISO 527-2
Flexural Modulus	8500	MPa	ISO 178
Flexural Stress	160	MPa	ISO 178
Coefficient of Friction			
Dynamic	0.15		
Static	0.14		
Flexural Strain at Flexural Strength	2.7	%	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	8.0	kJ/m²	ISO 179/1eA
23°C	11	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1fU
-30°C	21	kJ/m²	ISO 179/1fU
23°C	25	kJ/m²	ISO 179/1fU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa,			
Unannealed)	145	°C	ISO 75-2/A
Continuous Use Temperature	130	°C	UL 746B
Vicat Softening Temperature	160	°C	ISO 306/A
CLTE - Flow	3.0E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.45	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+3	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	

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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