LUVOCOM® 50-8022 VP

Polycarbonate

Lehmann & Voss & Co.

Message:

LUVOCOM®50-8022 VP is a polycarbonate (PC) material, and the filler is 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 50-8022 VP are:
Conductivity
Electrostatic protection
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
Features	Good dimensional stability Conductivity Rigid, good Electrostatic discharge protection Good strength
Uses	Gear Engineering accessories Business equipment Sporting goods Medical/nursing supplies
Appearance	Dark gray

Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm³	ISO 1183
Molding Shrinkage	0.20 - 0.50	%	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)	90.0	MPa	ISO 527-2
Tensile Strain (Yield)	1.8	%	ISO 527-2
Flexural Modulus	8000	MPa	ISO 178
Flexural Stress	135	MPa	ISO 178
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 Unnotched Impact Strength (23°C)	22	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	130	°C	UL 746B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+4	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.

Recommended distributors for this material

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