LUVOCOM® 1301-8517

Polyphenylene Sulfide

Lehmann & Voss & Co.

Message:

LUVOCOM®1301-8517 is a linear polyphenylene sulfide 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 1301-8517 are:
Flame Retardant
Conductivity
High stiffness
high strength
Electrostatic protection
Typical application areas include:
textile/fiber
engineering/industrial accessories
Automotive Industry
business/office supplies
medical/health care

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity Rigidity, high High strength Electrostatic discharge protection Good creep resistance Heat resistance, high Flame retardancy		
Uses	Textile applications Engineering accessories Application in Automobile Field Business equipment Medical/nursing supplies		
Appearance	Natural color		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.51	g/cm³	ISO 1183
Molding Shrinkage	0.10 - 0.30	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.050	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	24000	MPa	ISO 527-2
Tensile Stress (Break)	135	MPa	ISO 527-2
Tensile Strain (Yield)	0.90	%	ISO 527-2

Flexural Modulus	23000	MPa	ISO 178
Flexural Stress	200	MPa	ISO 178
Flexural Strain at Flexural Strength	1.2	%	ISO 178
Maximum operating temperature-Short Term	240	°C	
Insulation Resistance		ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	15	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	270	°C	ISO 75-2/A
Continuous Use Temperature	220	°C	UL 746B
Thermal Conductivity [1]	5.1	W/m/K	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	< 1.0E+5	ohms	IEC 60093
Injection	**Nominal Value**	**Unit**	
Drying Temperature			
B	50.0 - 90.0	°C	
Hot air dryer, A	100 - 140	°C	
Drying Time			
B	> 4.0	hr	
Hot air dryer, A	2.0 - 4.0	hr	
Rear Temperature	300 - 320	°C	
Middle Temperature	310 - 330	°C	
Front Temperature	320 - 340	°C	
Nozzle Temperature	320 - 340	°C	
Processing (Melt) Temp	330	°C	
Mold Temperature	150 - 180	°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
The material does not necessarily have to be predried; when originally sealed containers are used, this process may normally be omitted. Processing temperatures above 360°C may very rapidly cause thermal damage and should therefore be avoided.
Post-crystallization may lead to warpage at elevated operating temperatures. This can be counteracted by suitable heat treatment.
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.
High-temperature polymers place increased demands on the tool steels employed.
Please contact us for further information.

NOTE	
1.	Hot-Disk, 60x60x3 mm

Recommended distributors for this material

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