LUVOCOM® 1301/CF/10/GF/20/GK/20/BK100

Polyphenylene Sulfide

Lehmann & Voss & Co.

Message:

LUVOCOM®1301/CF/10/GF/20/GK/20/BK100 is a linear polyphenylene sulfide material, which contains fillers of 20% glass fiber reinforced materials, 20% glass beads 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 1301/CF/10/GF/20/GK/20/BK100 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	Glass fiber reinforced material, 20% filler by weight Glass beads, 20% filler by weight Carbon fiber reinforced material, 10% filler by weight
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	Black

Physical	Nominal Value	Unit	Test Method
Density	1.69	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (320°C/2.16 kg)	25	g/10 min	ISO 1133
Molding Shrinkage	0.20 - 0.50	%	DIN 16901

Water Absorption (23°C, 24 hr)	< 0.050	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	21000	MPa	ISO 527-2
Tensile Stress (Break)	130	MPa	ISO 527-2
Tensile Strain (Yield)	1.0	%	ISO 527-2
Flexural Modulus	19000	MPa	ISO 178
Flexural Stress	195	MPa	ISO 178
Coefficient of Friction			
Dynamic	0.25		
Static	0.30		
Flexural Strain at Flexural Strength	1.0	%	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 179/1fU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Continuous Use Temperature	220	°C	UL 746B
Vicat Softening Temperature	255	°C	ISO 306/A
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	< 1.0E+4	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.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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