LUVOCOM® 1700-1401

Polyphenylene Ether

Lehmann & Voss & Co.

Message:

LUVOCOM®1700-1401 is a polyphenylene ether PS (PPE PS) material, which contains glass and 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 features of 1700-1401 are:
flame retardant/rated flame
Conductivity
Electrostatic protection
anti-warping
Good dimensional stability
Typical application areas include:
engineering/industrial accessories
textile/fiber
Automotive Industry
business/office supplies

General Information			
Filler / Reinforcement	Glass, carbon fiber reinforced materials		
Features	Good dimensional stability Conductivity Low warpage Rigid, good Electrostatic discharge protection Good strength		
Uses	Textile applications Engineering accessories Application in Automobile Field Business equipment Cam		
Appearance	Natural color		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.16	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/5.0 kg)	15	g/10 min	ISO 1133
Molding Shrinkage	0.20 - 0.50	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.060	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	7500	MPa	ISO 527-2
Tensile Stress (Break)	100	MPa	ISO 527-2
Tensile Strain (Yield)	1.5	%	ISO 527-2
Flexural Modulus	8000	MPa	ISO 178

Flexural Stress	125	MPa	ISO 178
Coefficient of Friction			
Dynamic	0.22		
Static	0.20		
Flexural Strain at Flexural Strength	2.0	%	ISO 178
Insulation Resistance		ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.0	kJ/m^2	ISO 179/1eA
23°C	9.0	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1fU
-30°C	16	kJ/m^2	ISO 179/1fU
23°C	18	kJ/m^2	ISO 179/1fU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Continuous Use Temperature	110	°C	UL 746B
Vicat Softening Temperature	145	°C	ISO 306/A
CLTE - Flow	5.0E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.33	W/m/K	DIN 52612
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	< 1.0E+3	ohms	IEC 60093
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating [1]	V-0		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature - Desiccant Dryer	95.0 - 110	°C	
Drying Time - Desiccant Dryer	< 2.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	270 - 280	°C	
Middle Temperature	270 - 300	°C	
Front Temperature	290 - 305	°C	
Nozzle Temperature	285 - 295	°C	
Processing (Melt) Temp	280	°C	
Mold Temperature	70.0 - 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 0.1%, otherwise molecular degradation and surface defects (e.g. smearing) may occur. As the material absorbs water very rapidly, originally sealed containers should only be opened immediately before processing.
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.

NOTE	
1.	Not recognized by UL.

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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