

# LUVOCOM® 1700-8126

Polyphenylene Ether

Lehmann & Voss & Co.

## Message:

LUVOCOM® 1700-8126 is a polyphenylene ether PS (PPE PS) material containing glass beads. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

LUVOCOM® The main features of 1700-8126 are:

flame retardant/rated flame

Good dimensional stability

Wear-resistant

Lubrication

Typical application areas include:

textile/fiber

engineering/industrial accessories

Automotive Industry

business/office supplies

General Information			
Filler / Reinforcement	Glass beads		
Additive	PTFE lubricant		
Features	Good dimensional stability		
	Low friction coefficient		
	Good wear resistance		
	Lubrication		
Uses	Textile applications		
	Engineering accessories		
	Application in Automobile Field		
	Business equipment		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.50 - 0.80	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ISO 527-2
Tensile Stress (Break)	58.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.2	%	ISO 527-2
Flexural Modulus	2900	MPa	ISO 178
Flexural Stress	85.0	MPa	ISO 178
Flexural Strain at Flexural Strength	4.2	%	ISO 178
Maximum operating temperature-Short Term	130	°C	

Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	22	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	110	°C	UL 746B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+12	ohms	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		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.

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