LUVOCOM® 1700-7859 VP

Polyphenylene Ether

Lehmann & Voss & Co.

Message:

LUVOCOM®1700-7859 VP is a polyphenylene ether PS (PPE PS) material, which contains fiberglass reinforced materials 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 1700-7859 VP 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 fiber reinforced material Carbon fiber reinforced material
Additive	PTFE lubricant
Features	Good dimensional stability Conductivity Low friction coefficient Low warpage Rigid, good Electrostatic discharge protection Good strength Good wear resistance Lubrication
Uses	Textile applications Engineering accessories Application in Automobile Field Business equipment Cam
Appearance	Black

Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm³	ISO 1183
Molding Shrinkage	0.20 - 0.50	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.060	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13000	MPa	ISO 527-2
Tensile Stress (Break)	115	MPa	ISO 527-2
Tensile Strain (Yield)	1.5	%	ISO 527-2
Flexural Modulus	11000	MPa	ISO 178
Flexural Stress	170	MPa	ISO 178
Flexural Strain at Flexural Strength	2.0	%	ISO 178
Insulation Resistance		ohms	IEC 60167
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	6.0	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	20	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	120	°C	ISO 75-2/A
Continuous Use Temperature	110	°C	UL 746B
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	< 1.0E+5	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.

Recommended distributors for this material

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