LUVOCOM® 1700-8541

Polyphenylene Ether

Lehmann & Voss & Co.

Message:

LUVOCOM®1700-8541 is a polyphenylene ether PS (PPE PS) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. LUVOCOM®The main characteristics of 1700-8541 are: sterilizable.
Typical application areas include:
engineering/industrial accessories
textile/fiber
Tools
Automotive Industry
business/office supplies

General Information			
Features	Disinfect with steam		
Uses	Textile applications Non-specific food applications Engineering accessories Machine/mechanical parts Application in Automobile Field Business equipment Mold/Mold/Tool		
Appearance	Blue		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.17	g/cm^3	ISO 1183
Molding Shrinkage	0.60 - 1.0	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.10	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2500	MPa	ISO 527-2
Tensile Stress (Break)	65.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.2	%	ISO 527-2
Flexural Modulus	2000	MPa	ISO 178
Flexural Stress	95.0	MPa	ISO 178
Flexural Strain at Flexural Strength	7.0	%	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)	6.0	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	40	kJ/m^2	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

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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