LUVOCOM® 94-8839/ES

Low Density Polyethylene

LEHVOSS Group

Message:

LUVOCOM®94-8839/ES is a low density polyethylene material containing stainless steel fibers. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.
LUVOCOM®The main features of 94-8839/ES are:
Conductivity
Electromagnetic shielding (EMI)
Typical application areas include:
engineering/industrial accessories
textile/fiber
Automotive Industry
business/office supplies

General Information			
Filler / Reinforcement	Stainless steel fiber		
Features	Conductivity Electromagnetic shielding (EMI) Static conduction		
Uses	Thin wall parts Textile applications Engineering accessories Application in Automobile Field Business equipment		
Appearance	Natural color		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.20	g/cm³	ISO 1183
Molding Shrinkage	1.0 - 1.6	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.10	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	48		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	400	MPa	ISO 527-2
Tensile Stress (Break)	10.0	MPa	ISO 527-2
Tensile Strain (Yield)	20	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength			
-30°C	No Break		ISO 179/1fU
23°C	80	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**

Continuous Use Temperature	70.0	°C	UL 746B
Maximum operating temperature-Short Term	110	°C	
Insulation Resistance	1.0 - 3.2	ohms	IEC 60167
Vicat Softening Temperature	80.0	°C	ISO 306/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 3.2	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	85	°C	
Drying Time - Desiccant Dryer	2.0 - 3.0	hr	
Rear Temperature	160 - 200	°C	
Middle Temperature	170 - 220	°C	
Front Temperature	180 - 240	°C	
Nozzle Temperature	190 - 250	°C	
Processing (Melt) Temp	230	°C	
Mold Temperature	30 - 80	°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
If originally sealed containers are used, it is normally possible to omit the predrying stage. If PTFE materials are not predried, an increase in deposits inside the mould may occur.
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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