

LUVOCOM® 1880-8749

Liquid Crystal Polymer

Lehmann & Voss & Co.

Message:

LUVOCOM® 1880-8749 is a liquid crystal polymer (LCP) material, and the filler is glass fiber reinforced material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

LUVOCOM® The main features of 1880-8749 are:

Conductivity

Good dimensional stability

Good stiffness

Typical application areas include:

Electrical/electronic applications

engineering/industrial accessories

Aerospace

medical/health care

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good dimensional stability		
	Heat conduction		
	Rigid, good		
	Good strength		
Uses	Electrical/Electronic Applications		
	Engineering accessories		
	Aerospace applications		
	Medical/nursing supplies		
Appearance	Natural color		
Physical	Nominal Value	Unit	Test Method
Density	1.65	g/cm ³	ISO 1183
Molding Shrinkage	0.0 - 0.10	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.010	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14000	MPa	ISO 527-2
Tensile Stress (Break)	140	MPa	ISO 527-2
Tensile Strain (Yield)	1.7	%	ISO 527-2
Flexural Modulus	12000	MPa	ISO 178
Flexural Stress	175	MPa	ISO 178
Flexural Strain at Flexural Strength	2.3	%	ISO 178
Maximum operating temperature-Short Term	230	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C)	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	35	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	240	°C	ISO 75-2/A
Continuous Use Temperature	190	°C	UL 746B
Thermal Conductivity ¹	2.0	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+12	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature			
A	130 - 150	°C	
Vacuum dryer, B	150	°C	
Drying Time			
A	3.0 - 5.0	hr	
Vacuum dryer, B	4.0 - 5.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	290 - 330	°C	
Middle Temperature	310 - 340	°C	
Front Temperature	320 - 340	°C	
Nozzle Temperature	300 - 320	°C	
Processing (Melt) Temp	320	°C	
Mold Temperature	90.0 - 130	°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 0.02%, otherwise molecular degradation and surface defects (e.g. smearing) may occur. As the material absorbs water very quickly, the predried material should be fed to the processing immediately. Processing temperatures above 300°C may very rapidly cause thermal damage and should therefore be avoided.			
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.	Hot-Disk, 60x60x3 mm		

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Recommended distributors for this material

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