LUVOCOM® 1880-8748

Liquid Crystal Polymer

Lehmann & Voss & Co.

Message:

LUVOCOM® 1880-8748 is a liquid crystal polymer (LCP) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

LUVOCOM®The main features of 1880-8748 are:

Good dimensional stability

Good stiffness

Wear-resistant

Lubrication

Typical application areas include:

Electrical/electronic applications

engineering/industrial accessories

Aerospace

medical/health care

General Information				
Additive	PTFE lubricant			
Features	Good dimensional stability			
	Rigid, good			
	Good strength			
	Good wear resistance			
	Lubrication			
Uses	Electrical/Electronic Applications			
	Engineering accessories			
	Aerospace applications			
	Medical/nursing supplies			
Appearance	Grey			
Physical	Nominal Value	Unit	Test Method	
Density	1.46	g/cm³	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	9000	МРа	ISO 527-2	
Tensile Stress (Break)	145	МРа	ISO 527-2	
Tensile Strain (Yield)	3.2	%	ISO 527-2	
Flexural Modulus	8000	МРа	ISO 178	
Flexural Stress	190	МРа	ISO 178	
Coefficient of Friction				
Dynamic	0.16			
Static	0.22			

Flexural Strain at Flexural Strength	4.0	%	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)	33	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	90	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	225	°С	ISO 75-2/A
Continuous Use Temperature	190	°C	UL 746B
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	
	90.0 - 130	°C	

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.

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