

# LUVOCOM® 50-8906

Polycarbonate

Lehmann & Voss & Co.

## Message:

LUVOCOM® 50-8906 is a polycarbonate (PC) material, and the filler is glass fiber reinforced material. This product is available in Europe.

LUVOCOM® The main features of 50-8906 are:

flame retardant/rated flame

sterilizable

Good dimensional stability

Good stiffness

Typical application areas include:

Electrical/electronic applications

Reflector

engineering/industrial accessories

Automotive Industry

business/office supplies

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good dimensional stability		
	Rigid, good		
	Good disinfection		
	Good strength		
Uses	Reflector		
	Engineering accessories		
	Switch		
	Application in Automobile Field		
	Business equipment		
	Medical/nursing supplies		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.20 - 0.40	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6000	MPa	ISO 527-2
Tensile Stress (Break)	120	MPa	ISO 527-2
Tensile Strain (Yield)	3.0	%	ISO 527-2
Flexural Modulus	5000	MPa	ISO 178
Flexural Stress	172	MPa	ISO 178
Flexural Strain at Flexural Strength	3.5	%	ISO 178

Maximum operating temperature-Short Term	170	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength			
-30°C	51	kJ/m <sup>2</sup>	ISO 179/1fU
23°C	55	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	175	°C	ISO 75-2/A
Continuous Use Temperature	150	°C	UL 746B
Vicat Softening Temperature	180	°C	ISO 306/A
Flammability	Nominal Value	Unit	Test Method
Flame Rating <sup>1</sup>	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	130	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	310 - 330	°C	
Middle Temperature	320 - 340	°C	
Front Temperature	330 - 350	°C	
Nozzle Temperature	320 - 340	°C	
Processing (Melt) Temp	330	°C	
Mold Temperature	80.0 - 140	°C	
Injection instructions			
<p>General</p> <p>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.</p> <p>Lengthy dwell times for the melts in the cylinder should be avoided.</p> <p>Lower the temperatures during interruptions!</p> <p>Predrying (optional)</p> <p>It is advisable to predry the granulate with a suitable dryer immediately before processing.</p> <p>The granulate may absorb moisture from the air.</p> <p>Delivery Form &amp; Storage</p> <p>Unless indicated otherwise, the material is delivered as 3mm-long pellets in sealed bags on pallets.</p> <p>Preferably storage should be effected in dry and normally temperatured rooms</p> <p>Additional Information</p> <p>During processing, the moisture level should not exceed 0.02%, otherwise molecular degradation may occur.</p> <p>Suitable heat treatment may increase resistance to the formation of stress cracks.</p> <p>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.</p> <p>Please contact us for further information.</p>			
NOTE			
1.	Not recognized by UL.		

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