

# LUVOCOM® 50-9310

Polycarbonate

LEHVOSS Group

## Message:

LUVOCOM® 50-9310 is a polycarbonate (PC) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

LUVOCOM® The main features of 50-9310 are:

Flame Retardant

Conductivity

Good dimensional stability

Good stiffness

Heat resistance

Typical application areas include:

Electrical/electronic applications

engineering/industrial accessories

Automotive Industry

business/office supplies

medical/health care

General Information			
Features	Good dimensional stability		
	Rigid, good		
	Static conduction		
	Antistatic property		
	Good liquidity		
	Good strength		
	Heat resistance, high		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Engineering accessories		
	Application in Automobile Field		
	Business equipment		
	Medical/nursing supplies		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (330°C/2.16 kg)	30.0	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage	0.80 - 1.1	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2600	MPa	ISO 527-2
Tensile Stress (Break)	75.0	MPa	ISO 527-2

Tensile Strain (Yield)	6.0	%	ISO 527-2
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	180	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	155	°C	ISO 75-2/A
Continuous Use Temperature	150	°C	UL 746B
Maximum operating temperature-Short Term	170	°C	
Insulation Resistance	1.0E+9 - 1.0E+12	ohms	IEC 60167
Vicat Softening Temperature	180	°C	ISO 306/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+13	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	130	°C	
Drying Time - Desiccant Dryer	2.0 - 4.0	hr	
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 - 140	°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 may occur.

Suitable heat treatment may increase resistance to the formation of stress cracks.

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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