

# LUVOCOM® 6-8159

Polyamide 12  
Lehmann & Voss & Co.

Message:

LUVOCOM®6-8159 is a polyamide 12 (nylon 12) material, and the filler is carbon 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 6-8159 are:

Conductivity

Electrostatic protection

Good dimensional stability

Good stiffness

moisture resistance

Typical application areas include:

engineering/industrial accessories

textile/fiber

Automotive Industry

business/office supplies

Handle

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Good dimensional stability		
	Conductivity		
	Rigid, good		
	Electrostatic discharge protection		
	Good strength		
	Low or no water absorption		
Uses	Handle		
	Textile applications		
	Engineering accessories		
	Roller		
	Application in Automobile Field		
	Business equipment		
	Bearing		
Appearance	Natural color		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/1.2 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage	0.20 - 0.60	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6000	MPa	ISO 527-2

Tensile Stress (Break)	100	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	%	ISO 527-2
Flexural Modulus	5000	MPa	ISO 178
Flexural Stress	140	MPa	ISO 178
Flexural Strain at Flexural Strength	6.0	%	ISO 178
Maximum operating temperature-Short Term	140	°C	
Insulation Resistance		ohms	IEC 60167
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Charpy Notched Impact Strength (23°C)	12	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	42	kJ/m <sup>2</sup>	ISO 179/1eU
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Continuous Use Temperature	90.0	°C	UL 746B
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Surface Resistivity	< 1.0E+5	ohms	IEC 60093
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
Drying Temperature			
A	75.0	°C	
B	105	°C	
Drying time-A	6.0 - 10	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	230 - 250	°C	
Middle Temperature	240 - 260	°C	
Front Temperature	250 - 270	°C	
Nozzle Temperature	250 - 260	°C	
Processing (Melt) Temp	250	°C	
Mold Temperature	70.0 - 110	°C	
<b>Injection instructions</b>			

#### 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 0.1%, otherwise molecular degradation and surface defects (e.g. smearing) may occur. As the material absorbs water rapidly, originally sealed containers should only be opened immediately before processing. Excessively high predrying temperatures may cause discoloration.

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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