

# LUVOCOM® 1-8864/ES

Polyamide 66

LEHVOSS Group

## Message:

LUVOCOM® 1-8864/ES is a polyamide 66 (nylon 66) material containing stainless steel fibers. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

LUVOCOM® The main features of 1-8864/ES are:

Conductivity

Electromagnetic shielding (EMI)

Good stiffness

heat stabilizer

Typical application areas include:

Electrical/electronic applications

textile/fiber

engineering/industrial accessories

Automotive Industry

business/office supplies

General Information			
Filler / Reinforcement	Stainless steel fiber		
Additive	heat stabilizer		
Features	Conductivity		
	Electromagnetic shielding (EMI)		
	Rigid, good		
	Static conduction		
	Good strength		
	Thermal Stability		
Uses	Electrical/Electronic Applications		
	Textile applications		
	Engineering accessories		
	Application in Automobile Field		
	Business equipment		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density	1.67	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.80 - 1.5	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 1.3	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5200	MPa	ISO 527-2
Tensile Stress (Break)	74.0	MPa	ISO 527-2
Tensile Strain (Yield)	2.2	%	ISO 527-2
Flexural Modulus	3900	MPa	ISO 178

Flexural Stress	98.0	MPa	ISO 178
Flexural Strain at Flexural Strength	2.6	%	ISO 178
Maximum operating temperature-Short Term	160	°C	
Insulation Resistance	1.0 - 3.2	ohms	IEC 60167
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Charpy Unnotched Impact Strength			
-30°C	24	kJ/m <sup>2</sup>	ISO 179/1fU
23°C	26	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	120	°C	UL 746B
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Surface Resistivity	< 10	ohms	IEC 60093
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
Drying Temperature			
Hot air dryer, A	75	°C	
Vacuum dryer, B	105	°C	
Drying Time			
Hot air dryer, A	6.0 - 16	hr	
Vacuum dryer, B	4.0 - 6.0	hr	
Rear Temperature	290 - 310	°C	
Middle Temperature	290 - 310	°C	
Front Temperature	290 - 310	°C	
Nozzle Temperature	280 - 300	°C	
Processing (Melt) Temp	290	°C	
Mold Temperature	90 - 120	°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. Due to rapid absorption of water, originally sealed containers should only be opened immediately prior to 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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Recommended distributors for this material

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