

# LUVOCOM® 3-8437/EM/BL

Polyamide 6  
LEHVOSS Group

Message:

LUVOCOM®3-8437/EM/BL is a polyamide 6 (nylon 6) material, which contains a glass fiber reinforced material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

LUVOCOM®The main characteristics of 3-8437/EM/BL are:

High stiffness  
high strength  
Creep resistance

Typical application areas include:  
engineering/industrial accessories  
Tools  
container  
textile/fiber  
Automotive Industry

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Rigidity, high		
	High strength		
	Good creep resistance		
Uses	Textile applications		
	Engineering accessories		
	Machine/mechanical parts		
	Mould		
	Application in Automobile Field		
	Container		
	Food container		
	Cam		
Appearance	Blue		
Physical	Nominal Value	Unit	Test Method
Density	1.72	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.20 - 0.60	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 1.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ISO 527-2
Tensile Stress (Break)	145	MPa	ISO 527-2
Tensile Strain (Yield)	2.0	%	ISO 527-2
Flexural Modulus	10000	MPa	ISO 178
Flexural Stress	200	MPa	ISO 178

Flexural Strain at Flexural Strength	2.5	%	ISO 178
Maximum operating temperature-Short Term	140	°C	
Insulation Resistance	> 1.0E+11	ohms	IEC 60167
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	36	kJ/m <sup>2</sup>	ISO 179/1fU
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	100	°C	UL 746B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+11	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature			
Hot air dryer, A	75	°C	
Hot air dryer, B	105	°C	
Drying Time			
Hot air dryer, A	10 - 16	hr	
Hot air dryer, B	4.0 - 6.0	hr	
Rear Temperature	250 - 270	°C	
Middle Temperature	270 - 290	°C	
Front Temperature	280 - 300	°C	
Nozzle Temperature	270 - 280	°C	
Processing (Melt) Temp	270	°C	
Mold Temperature	70 - 110	°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 0.1%, 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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