

# LUVOTECH® MR 2007/BL

Polyamide 6

LEHVOSS Group

## Message:

LUVOTECH®MR 2007/BL is a polyamide 6 (nylon 6) material containing mineral fillers. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. LUVOTECH®The main characteristics of MR 2007/BL are: warpage resistance.

Typical application areas include:

textile/fiber

engineering/industrial accessories

Automotive Industry

General Information			
Filler / Reinforcement	Mineral filler		
Features	Low warpage		
Uses	Textile applications		
	Engineering accessories		
	Application in Automobile Field		
Appearance	Blue		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.60 - 1.2	%	DIN 16901
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8100	MPa	ISO 527-2
Tensile Stress (Break)	94.0	MPa	ISO 527-2
Tensile Strain (Yield)	3.2	%	ISO 527-2
Flexural Modulus	7100	MPa	ISO 178
Flexural Stress	149	MPa	ISO 178
Flexural Strain at Flexural Strength	4.1	%	ISO 178
Maximum operating temperature-Short Term	160	°C	
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	36	kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	120	°C	UL 746B
Vicat Softening Temperature	205	°C	ISO 306/A
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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