

LUVOTECH® GS 46

Polyamide 46
Lehmann & Voss & Co.

Message:

LUVOTECH®GS 46 is a polyamide 46 (nylon 46) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

LUVOTECH®The main features of GS 46 are:

Good dimensional stability

heat stabilizer

Lubrication

Typical application areas include:

textile/fiber

engineering/industrial accessories

Automotive Industry

business/office supplies

General Information			
Additive	heat stabilizer		
	Lubricant		
Features	Good dimensional stability		
	Thermal Stability		
	Lubrication		
Uses	Textile applications		
	Engineering accessories		
	Application in Automobile Field		
	Business equipment		
Appearance	Grey		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Molding Shrinkage	1.0 - 1.5	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 1.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3900	MPa	ISO 527-2
Tensile Stress (Break)	100	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Coefficient of Friction			
Dynamic	0.31		
Static	0.23		
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength (23°C)	90	kJ/m ²	ISO 179/1fU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	160	°C	ISO 75-2/A
Continuous Use Temperature	150	°C	UL 746B
Maximum operating temperature-Short Term	160	°C	
Vicat Softening Temperature	280	°C	ISO 306/A
Injection	Nominal Value	Unit	
Drying Temperature			
A	80.0	°C	
Vacuum dryer, B	80.0	°C	
Drying Time			
A	2.0 - 8.0	hr	
Vacuum dryer, B	2.0 - 12	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	285 - 315	°C	
Middle Temperature	305 - 315	°C	
Front Temperature	305 - 315	°C	
Nozzle Temperature	280 - 330	°C	
Processing (Melt) Temp	310	°C	
Mold Temperature	120 - 140	°C	
Injection instructions			

General

In general LUVOTECH® 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 very 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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