LUVOCOM® 1-8841

Polyamide 66

Lehmann & Voss & Co.

Message:

LUVOCOM®1-8841 is a polyamide 66 (nylon 66) material, which contains glass fiber reinforcement and aramid fiber. This product is available in Europe.
LUVOCOM®The main features of 1-8841 are:
anti-warping
Good stiffness
Wear-resistant
Lubrication
Typical application areas include:
textile/fiber
engineering/industrial accessories
Automotive Industry
business/office supplies

General Information	
Filler / Reinforcement	Glass fiber reinforced material Aramid fiber
Additive	PTFE lubricant
Features	Low friction coefficient Low warpage Rigid, good Good strength Good wear resistance Lubrication
Uses	Textile applications Engineering accessories Application in Automobile Field Business equipment
Appearance	Black

Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm³	ISO 1183
Molding Shrinkage	0.30 - 0.70	%	DIN 16901
Water Absorption (23°C, 24 hr)	< 1.0	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ISO 527-2
Tensile Stress (Break)	120	MPa	ISO 527-2
Tensile Strain (Yield)	2.8	%	ISO 527-2
Flexural Modulus	7000	MPa	ISO 178

Flexural Stress	175	MPa	ISO 178
Coefficient of Friction			
Dynamic	0.23		
Static	0.17		
Flexural Strain at Flexural Strength	3.4	%	ISO 178
Maximum operating temperature-Short Term	160	°C	
Insulation Resistance	> 1.0E+12	ohms	IEC 60167

Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	120	°C	UL 746B
Vicat Softening Temperature	250	°C	ISO 306/A

Injection	Nominal Value	Unit	
Drying Temperature			
Hot air dryer, A	75.0	°C	
Vacuum dryer, B	105	°C	
Drying Time			
Hot air dryer, A	6.0 - 16	hr	
Vacuum dryer, B	4.0 - 6.0	hr	
Suggested Max Moisture	0.10	%	
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	90.0 - 120	°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. 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.

Recommended distributors for this material

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