# LUVOCOM® 3-8920/BL/L

Polyamide 6

Lehmann & Voss & Co.

## Message:

LUVOCOM®3-8920/BL/L is a polyamide 6 (nylon 6) material, and the filler is glass fiber reinforced material. This product is available in Europe.
LUVOCOM®The main features of 3-8920/BL/L are:
High stiffness
high strength
Creep resistance
Typical application areas include:
engineering/industrial accessories
textile/fiber
Tools
Automotive Industry
food contact applications

| General Information | |
|---|---|
| Filler / Reinforcement | Glass fiber reinforced material |
| Features | Rigidity, high<br>High strength<br>Good creep resistance |
| Uses | Textile applications<br>Non-specific food applications<br>Engineering accessories<br>Machine/mechanical parts<br>Application in Automobile Field<br>Cam<br>Mold/Mold/Tool |
| Appearance | Blue |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.62 | g/cm³ | 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 | 8500 | MPa | ISO 527-2 |
| Tensile Stress (Break) | 105 | MPa | ISO 527-2 |
| Tensile Strain (Yield) | 2.0 | % | ISO 527-2 |
| Flexural Modulus | 7100 | MPa | ISO 178 |
| Flexural Stress | 151 | MPa | ISO 178 |
| Flexural Strain at Flexural Strength | 2.7 | % | ISO 178 |
| Maximum operating temperature-Short Term | 130 | °C | |

| | | | |
|---|---|---|---|
| Insulation Resistance | > 1.0E+10 | ohms | IEC 60167 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Unnotched Impact Strength (23°C) | 42 | kJ/m² | ISO 179/1eU |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Continuous Use Temperature | 90.0 | °C | UL 746B |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Surface Resistivity | > 1.0E+10 | ohms | IEC 60093 |
| **Injection** | **Nominal Value** | **Unit** | |
| Drying Temperature | | | |
| A | 75.0 | °C | |
| B | 105 | °C | |
| Drying Time | | | |
| A | 10 - 16 | hr | |
| B | 4.0 - 6.0 | hr | |
| Suggested Max Moisture | 0.10 | % | |
| 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 | 70.0 - 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.



## Recommended distributors for this material

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