# LUVOCOM® 1500-0871

Polysulfone

LEHVOSS Group

## Message:

LUVOCOM®1500-0871 is a polysulfone (PSU) material containing glass beads. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.
LUVOCOM®The main features of 1500-0871 are:
Flame Retardant
Good dimensional stability
chemical resistance
Heat resistance
Hydrolytic stability
LUVOCOM®Typical application areas of 1500-0871 are: engineering/industrial accessories

| General Information | | | |
|---|---|---|---|
| Filler / Reinforcement | Glass beads | | |
| Features | Good dimensional stability<br>Good chemical resistance<br>Heat resistance, high<br>Hydrolysis stability<br>Flame retardancy | | |
| Uses | Cam | | |
| Appearance | Natural color | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 1.46 | g/cm³ | ISO 1183 |
| Molding Shrinkage | 0.50 - 1.0 | % | DIN 16901 |
| Water Absorption (23°C, 24 hr) | < 0.10 | % | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 3800 | MPa | ISO 527-2 |
| Tensile Stress (Break) | 75.0 | MPa | ISO 527-2 |
| Tensile Strain (Yield) | 3.5 | % | ISO 527-2 |
| Flexural Modulus | 3200 | MPa | ISO 178 |
| Flexural Stress | 105 | MPa | ISO 178 |
| Flexural Strain at Flexural Strength | 4.7 | % | ISO 178 |
| Maximum operating temperature-Short Term | 170 | °C | |
| Insulation Resistance | > 1.0E+12 | ohms | IEC 60167 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Unnotched Impact Strength (23°C) | 40 | kJ/m² | ISO 179/1fU |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Continuous Use Temperature | 150 | °C | UL 746B |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Surface Resistivity | > 1.0E+12 | ohms | IEC 60093 |

| Injection | Nominal Value | Unit |
|---|---|---|
| Drying Temperature - Desiccant Dryer | 140 | °C |
| Drying Time - Desiccant Dryer | 3.0 - 4.0 | hr |
| Rear Temperature | 340 - 360 | °C |
| Middle Temperature | 345 - 365 | °C |
| Front Temperature | 350 - 370 | °C |
| Nozzle Temperature | 350 - 370 | °C |
| Processing (Melt) Temp | 355 | °C |
| Mold Temperature | 140 - 170 | °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 0.05%, otherwise porosity and surface defects (e.g. smearing) may occur. To avoid internal stresses, a low shear load should be used for processing. The parts may be tempered at a later stage to reduce internal stresses.
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.
High-temperature polymers place increased demands on the tool steels employed.
Please contact us for further information.



## Recommended distributors for this material

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