# LUVOCOM® 1106-8232

Polyether Imide

Lehmann & Voss & Co.

## Message:

LUVOCOM®1106-8232 is a polyetherimide (PEI) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.
LUVOCOM®The main features of 1106-8232 are:
flame retardant/rated flame
Flame Retardant
Good dimensional stability
Heat resistance

| General Information | | | |
|---|---|---|---|
| Features | Good dimensional stability<br>Laser marking<br>Heat resistance, high<br>Flame retardancy | | |
| Appearance | Grey | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 1.42 | g/cm³ | ISO 1183 |
| Molding Shrinkage | 0.40 - 0.80 | % | DIN 16901 |
| Water Absorption (23°C, 24 hr) | < 0.30 | % | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 3800 | MPa | ISO 527-2 |
| Tensile Stress (Break) | 115 | MPa | ISO 527-2 |
| Tensile Strain (Yield) | 6.5 | % | ISO 527-2 |
| Flexural Modulus | 3300 | MPa | ISO 178 |
| Flexural Stress | 165 | MPa | ISO 178 |
| Flexural Strain at Flexural Strength | 8.0 | % | ISO 178 |
| Insulation Resistance | > 1.0E+12 | ohms | IEC 60167 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength (23°C) | 6.0 | kJ/m² | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C) | 95 | kJ/m² | ISO 179/1eU |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 200 | °C | ISO 75-2/A |
| Continuous Use Temperature | 170 | °C | UL 746B |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Surface Resistivity | > 1.0E+12 | ohms | IEC 60093 |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| Flame Rating [1] | V-0 | | UL 94 |

| Injection | Nominal Value | Unit |
|---|---|---|
| Drying Temperature | | |
| Hot air dryer, A | 120 | °C |
| Hot air dryer, B | 150 | °C |
| Drying Time | | |
| Hot air dryer, A | > 8.0 | hr |
| Hot air dryer, B | > 4.0 | hr |
| Suggested Max Moisture | 0.030 | % |
| Rear Temperature | 330 - 350 | °C |
| Middle Temperature | 340 - 390 | °C |
| Front Temperature | 350 - 400 | °C |
| Nozzle Temperature | 350 - 400 | °C |
| Processing (Melt) Temp | 380 | °C |
| Mold Temperature | 150 - 180 | °C |

| Injection instructions |
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| General<br>In general LUVOCOM® can be processed on conventional injection moulding machines while observing the usual technical guidelines.<br>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.<br>Lengthy dwell times for the melts in the cylinder should be avoided.<br>Lower the temperatures during interruptions!<br>Predrying (optional)<br>It is advisable to predry the granulate with a suitable dryer immediately before processing.<br>The granulate may absorb moisture from the air.<br>Delivery Form & Storage<br>Unless indicated otherwise, the material is delivered as 3mm-long pellets in sealed bags on pallets.<br>Preferably storage should be effected in dry and normally temperatured rooms<br>Additional Information<br>During processing the moisture level should not exceed 0.03%, otherwise porosity and surface defects (e.g. smearing) may occur. Predrying is recommended even when sealed original containers are being used. To avoid internal stresses, a low shear load should be used for processing.<br>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.<br>High-temperature polymers place increased demands on the tool steels employed.<br>Please contact us for further information. |

| NOTE | |
|---|---|
| 1. | Not recognized by UL. |



## Recommended distributors for this material

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