

LUVOCOM® 105-8617

Thermoplastic Elastomer

LEHVOSS Group

Message:

LUVOCOM® 105-8617 is a thermoplastic elastomer (TPE) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. LUVOCOM® The main characteristics of 105-8617 are: conductivity.

| General Information | | | |
|--|-------------------|-------------------|-------------|
| Features | Conductivity | | |
| | Heat conduction | | |
| | Static conduction | | |
| Appearance | Grey | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.11 | g/cm ³ | ISO 1183 |
| Molding Shrinkage | 0.60 - 1.2 | % | DIN 16901 |
| Water Absorption (23°C, 24 hr) | < 0.30 | % | |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 86 | | ISO 868 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 300 | MPa | ISO 527-2 |
| Tensile Stress (Break) | 5.00 | MPa | ISO 527-2 |
| Tensile Strain (Yield) | 20 | % | ISO 527-2 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Unnotched Impact Strength (23°C) | No Break | | ISO 179/1fU |
| Thermal | Nominal Value | Unit | Test Method |
| Continuous Use Temperature | 90.0 | °C | UL 746B |
| Maximum operating temperature-Short Term | 140 | °C | |
| Insulation Resistance | | ohms | IEC 60167 |
| Thermal Conductivity ¹ | 9.5 | W/m/K | |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | < 1.0E+7 | ohms | IEC 60093 |
| Injection | Nominal Value | Unit | |
| Drying Temperature - Desiccant Dryer | 85 | °C | |
| Drying Time - Desiccant Dryer | 2.0 - 3.0 | hr | |
| Rear Temperature | 160 - 185 | °C | |
| Middle Temperature | 170 - 190 | °C | |
| Front Temperature | 175 - 195 | °C | |
| Nozzle Temperature | 180 - 200 | °C | |
| Processing (Melt) Temp | 200 | °C | |

| | | |
|------------------|---------|----|
| Mold Temperature | 25 - 55 | °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 0.01%, otherwise molecular degradation may occur. As the material absorbs water very rapidly, originally sealed containers should only be opened immediately before processing.

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.

NOTE

1. Hot-Disk, 60x60x3 mm

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