# LUVOCOM® 1105-9254

Polyetheretherketone

LEHVOSS Group

## Message:

LUVOCOM®1105-9254 is a polyetheretherketone (PEEK) material containing aramid fibers. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.
LUVOCOM®The main features of 1105-9254 are:
chemical resistance
Wear-resistant
Lubrication
Hydrolytic stability
Typical application areas include:
engineering/industrial accessories
textile/fiber
Aerospace
Automotive Industry
medical/health care

| General Information | | | |
|---|---|---|---|
| Filler / Reinforcement | Aramid fiber | | |
| Additive | PTFE lubricant | | |
| Features | Low friction coefficient<br>Good liquidity<br>Good chemical resistance<br>Good wear resistance<br>Lubrication<br>Hydrolysis stability | | |
| Uses | Pump parts<br>Bushing<br>Gear<br>Textile applications<br>Engineering accessories<br>Aerospace applications<br>Application in Automobile Field<br>Medical/nursing supplies<br>Bearing | | |
| Appearance | Natural color | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 1.48 | g/cm³ | ISO 1183 |
| Molding Shrinkage | 0.60 - 1.2 | % | DIN 16901 |
| Water Absorption (23°C, 24 hr) | < 0.10 | % | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Tensile Modulus | 3500 | MPa | ISO 527-2 |
| Tensile Stress (Break) | 55.0 | MPa | ISO 527-2 |
| Tensile Strain (Yield) | 4.0 | % | ISO 527-2 |
| Flexural Modulus | 3000 | MPa | ISO 178 |
| Flexural Stress | 95.0 | MPa | ISO 178 |
| Flexural Strain at Flexural Strength | 4.5 | % | ISO 178 |
| Maximum operating temperature-Short Term | 260 | °C | |
| Insulation Resistance | > 1.0E+12 | ohms | IEC 60167 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength (23°C) | 4.0 | $kJ/m^2$ | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C) | 22 | $kJ/m^2$ | ISO 179/1eU |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Continuous Use Temperature | 250 | °C | UL 746B |
| **Injection** | **Nominal Value** | **Unit** | |
| Drying Temperature | | | |
| Hot air dryer, A | 150 | °C | |
| Hot air dryer, B | 120 | °C | |
| Drying Time | | | |
| Hot air dryer, A | 3.0 - 6.0 | hr | |
| Hot air dryer, B | 6.0 - 8.0 | hr | |
| Rear Temperature | 360 - 370 | °C | |
| Middle Temperature | 380 - 390 | °C | |
| Front Temperature | 390 - 400 | °C | |
| Nozzle Temperature | 360 - 380 | °C | |
| Processing (Melt) Temp | 390 | °C | |
| Mold Temperature | 170 - 200 | °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 content should not exceed 0.05%. To avoid internal stresses, a medium to high injection rate should be used. An increase in tool temperature may be helpful. Post-crystallization may lead to warpage at elevated operating temperatures. This can be counteracted by suitable heat treatment.
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.

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## Recommended distributors for this material

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