# LUVOCOM® 80-8842

Acetal (POM) Copolymer

Lehmann & Voss & Co.

## Message:

LUVOCOM®80-8842 is a polyoxymethylene (POM) copolymer material. This product is available in Europe. LUVOCOM®The main characteristics of 80-8842 are: good rigidity.
Typical application areas include:
engineering/industrial accessories
textile/fiber
Automotive Industry
business/office supplies

| General Information | | | |
|---|---|---|---|
| Features | Rigid, good<br>Good liquidity<br>Good strength | | |
| Uses | Thin wall parts<br>Textile applications<br>Engineering accessories<br>Application in Automobile Field<br>Business equipment | | |
| Appearance | Natural color | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 1.42 | $g/cm^3$ | ISO 1183 |
| Molding Shrinkage | 1.8 - 2.5 | % | DIN 16901 |
| Water Absorption (23°C, 24 hr) | < 0.10 | % | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 3000 | MPa | ISO 527-2 |
| Tensile Stress (Break) | 56.0 | MPa | ISO 527-2 |
| Tensile Strain (Yield) | 7.0 | % | ISO 527-2 |
| Flexural Modulus | 2000 | MPa | ISO 178 |
| Flexural Stress | 60.0 | MPa | ISO 178 |
| Flexural Strain at Flexural Strength | 8.0 | % | ISO 178 |
| Maximum operating temperature-Short Term | 120 | °C | |
| Insulation Resistance | > 1.0E+12 | ohms | IEC 60167 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Unnotched Impact Strength (23°C) | 75 | $kJ/m^2$ | ISO 179/1fU |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 105 | °C | ISO 75-2/A |

| | | | |
|---|---|---|---|
| Continuous Use Temperature | 100 | °C | UL 746B |
| Vicat Softening Temperature | 160 | °C | ISO 306/A |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Surface Resistivity | > 1.0E+12 | ohms | IEC 60093 |
| **Injection** | **Nominal Value** | **Unit** | |
| Drying Temperature | | | |
| A | 75.0 | °C | |
| Dehumidification desiccant, B | 120 | °C | |
| Drying Time | | | |
| A | 2.0 - 8.0 | hr | |
| Dehumidification desiccant, B | 2.0 - 4.0 | hr | |
| Rear Temperature | 175 - 190 | °C | |
| Middle Temperature | 185 - 205 | °C | |
| Front Temperature | 180 - 200 | °C | |
| Nozzle Temperature | 175 - 200 | °C | |
| Processing (Melt) Temp | 200 | °C | |
| Mold Temperature | 80.0 - 120 | °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
If originally sealed containers are used, it is normally possible to omit the predrying stage. If PTFE materials are not predried, an increase in deposits inside the mould may occur. When changing from higher melting-point polymers such as polyamides to this product, extremely thorough intermediate cleaning should be carried out. Processing temperatures above 215°C may very rapidly cause thermal damage and should therefore be avoided, particularly as formaldehyde may be eliminated here.
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

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


WECHAT