

LUVOCOM® 20-0791

Polyphthalamide

Lehmann & Voss & Co.

Message:

LUVOCOM® 20-0791 is a polyxylylene amide (PPA) material, and the filler is glass fiber reinforced material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

LUVOCOM® The main features of 20-0791 are:

High stiffness

high strength

Wear-resistant

Lubrication

Typical application areas include:

engineering/industrial accessories

Electrical/electronic applications

textile/fiber

Automotive Industry

business/office supplies

| General Information | | | |
|--------------------------------|---------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass fiber reinforced material | | |
| Additive | PTFE lubricant | | |
| Features | Low friction coefficient | | |
| | Rigidity, high | | |
| | High strength | | |
| | Good wear resistance | | |
| | Lubrication | | |
| Uses | Gear | | |
| | Textile applications | | |
| | Engineering accessories | | |
| | Switch | | |
| | Application in Automobile Field | | |
| | Business equipment | | |
| | Bearing | | |
| Appearance | Natural color | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.63 | g/cm ³ | ISO 1183 |
| Molding Shrinkage | 0.20 - 0.50 | % | DIN 16901 |
| Water Absorption (23°C, 24 hr) | < 0.30 | % | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 14000 | MPa | ISO 527-2 |
| Tensile Stress (Break) | 220 | MPa | ISO 527-2 |
| Tensile Strain (Yield) | 2.5 | % | ISO 527-2 |

| | | | |
|---|---------------|-------------------|-------------|
| Flexural Modulus | 10000 | MPa | ISO 178 |
| Flexural Stress | 310 | MPa | ISO 178 |
| Flexural Strain at Flexural Strength | 3.0 | % | ISO 178 |
| Maximum operating temperature-Short Term | 195 | °C | |
| Insulation Resistance | > 1.0E+12 | ohms | IEC 60167 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Unnotched Impact Strength | | | |
| -30°C | 65 | kJ/m ² | ISO 179/1fU |
| 23°C | 80 | kJ/m ² | ISO 179/1eU |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 270 | °C | ISO 75-2/A |
| Continuous Use Temperature | 165 | °C | UL 746B |
| Vicat Softening Temperature | 270 | °C | ISO 306/A |
| CLTE - Flow | 2.0E-5 | cm/cm/°C | DIN 53752 |
| Thermal Conductivity | 0.27 | W/m/K | DIN 52612 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | | | |
| A | 80.0 | °C | |
| Vacuum dryer, B | 105 | °C | |
| Drying time-A | 16 | hr | |
| Suggested Max Moisture | 0.050 | % | |
| Rear Temperature | 320 - 340 | °C | |
| Middle Temperature | 320 - 345 | °C | |
| Front Temperature | 325 - 350 | °C | |
| Nozzle Temperature | 320 - 330 | °C | |
| Processing (Melt) Temp | 330 | °C | |
| Mold Temperature | 135 - 160 | °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 molecular degradation and surface defects (e.g. smearing) may occur. As the material absorbs water rapidly, originally sealed containers should only be opened immediately before processing. Processing temperatures above 340°C may very rapidly cause thermal damage and should therefore be avoided.

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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