

**LUVOCOM® 3-50125**

LEHVOSS Group - Polyamide 6

## General Information

**Product Description**

with glass fibers and mineral filler; natural color

## Main Features

- Contains a halogen free flame retardend.
- Thermally conductive.

**General**

|                        |                        |                 |                        |
|------------------------|------------------------|-----------------|------------------------|
| Material Status        | • Commercial: Active   |                 |                        |
| Availability           | • Africa & Middle East | • Europe        | • North America        |
|                        | • Asia Pacific         | • Latin America |                        |
| Filler / Reinforcement | • Glass Fiber          | • Mineral       |                        |
| Additive               | • Flame Retardant      |                 |                        |
| Features               | • Flame Retardant      | • Halogen Free  | • Thermally Conductive |
| Appearance             | • Natural Color        |                 |                        |

 Properties <sup>1</sup>

| Physical                                    | Nominal Value | Unit                          | Test Method   |
|---|---------------|-------------------------------|---------------|
| Density                                     | 1.73          | g/cm <sup>3</sup>             | ISO 1183      |
| Melt Volume-Flow Rate (MVR) (275°C/10.0 kg) | 2.3           | cm <sup>3</sup> /10min        | ISO 1133      |
| Mechanical                                  | Nominal Value | Unit                          | Test Method   |
| Tensile Modulus                             | 1.42E+6       | psi                           | ISO 527-1/1   |
| Tensile Stress                              | 13800         | psi                           | ISO 527-2     |
| Tensile Strain (Yield)                      | 2.2           | %                             | ISO 527-2/50  |
| Flexural Modulus <sup>2</sup>               | 1.31E+6       | psi                           | ISO 178       |
| Flexural Stress <sup>3</sup>                | 20300         | psi                           | ISO 178       |
| Flexural Strain - (Yield) <sup>4</sup>      | 2.2           | %                             | ISO 178       |
| Thermal                                     | Nominal Value | Unit                          | Test Method   |
| Thermal Conductivity                        |               |                               | ISO 22007     |
| -- <sup>5</sup>                             | 7.6           | Btu·in/hr/ft <sup>2</sup> /°F |               |
| -- <sup>6</sup>                             | 9.0           | Btu·in/hr/ft <sup>2</sup> /°F |               |
| Electrical                                  | Nominal Value | Unit                          | Test Method   |
| Insulation Resistance <sup>7</sup>          | > 1.0E+12     | ohms                          | IEC 62631-3-3 |

## Processing Information

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     |               |      |
| Desiccant Dryer, A     | 167           | °F   |
| Desiccant Dryer, B     | 221           | °F   |
| Drying Time            |               |      |
| Desiccant Dryer, A     | 10 to 16      | hr   |
| Desiccant Dryer, B     | 4.0 to 6.0    | hr   |
| Rear Temperature       | 482 to 518    | °F   |
| Middle Temperature     | 518 to 554    | °F   |
| Front Temperature      | 536 to 572    | °F   |
| Nozzle Temperature     | 518 to 536    | °F   |
| Processing (Melt) Temp | 518           | °F   |
| Mold Temperature       | 158 to 230    | °F   |

**Injection Notes**


During processing, the moisture level should not exceed 0.01%, otherwise molecular degradation may occur. As the material absorbs water very quickly, the predried material should be fed to the processing immediately. 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.

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 0.079 in/min

<sup>3</sup> 0.39 in/min

<sup>4</sup> 10 mm/min

<sup>5</sup> in plane; hot disk

<sup>6</sup> through plane; hot disk

<sup>7</sup> strip electrode R25

