

LUVOTECH® eco PA6 GF30 HS BK
 LEHVOSS Group - Polyamide 6

General Information
Product Description

with glass fibers; black

Main Features

- Strong, stiff parts.

General

| | | | |
|------------------------|------------------------|-----------------|-----------------|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East | • Europe | • North America |
| | • Asia Pacific | • Latin America | |
| Filler / Reinforcement | • Glass Fiber | | |
| Features | • High Stiffness | • High Strength | |
| Appearance | • Black | | |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-----------------------|-----------------|
| Density | 1.35 | g/cm ³ | ISO 1183 |
| Water Absorption (24 hr, 73°F) | < 1.3 | % | ISO 62 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 1.16E+6 | psi | ISO 527-1/1 |
| Tensile Stress | 17400 | psi | ISO 527-2 |
| Tensile Strain (Yield) | 3.5 | % | ISO 527-2/50 |
| Flexural Modulus ² | 1.02E+6 | psi | ISO 178 |
| Flexural Stress ³ | 29000 | psi | ISO 178 |
| Flexural Strain - (Yield) ⁴ | 4.5 | % | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength | 3.8 | ft·lb/in ² | ISO 179/1eA |
| Charpy Unnotched Impact Strength | 29 | ft·lb/in ² | ISO 179/1eU |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | > 1.0E+12 | ohms | IEC 62631-3-2 |
| Insulation Resistance ⁵ | > 1.0E+12 | ohms | IEC 62631-3-3 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.06 in) | HB | | Internal Method |

Processing Information

| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Drying Temperature | | |
| Desiccant Dryer, A | 167 | °F |
| Vacuum Dryer, B | 221 | °F |
| Drying Time | | |
| Desiccant Dryer, A | 10 to 16 | hr |
| Vacuum 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 |
| 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

¹ Typical properties: these are not to be construed as specifications.

² 0.079 in/min

³ 0.39 in/min

⁴ 10 mm/min

⁵ strip electrode R25

