# AKROMID® B3 GF 30 FR orange (7857)

PA6-GF30 — Akro-Plastic GmbH

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Molding shrinkage, parallel | **0.2** | % | ISO 294-4, 2577 |

| Mechanical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Tensile Modulus | **10500** | MPa | ISO 527 |
| Stress at break | **125** | MPa | ISO 527 |
| Strain at break | **2.5** | % | ISO 527 |
| Charpy impact strength, +23°C | **60** | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | **10** | kJ/m² | ISO 179/1eA |

| Thermal properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Temp. of deflection under load, 1.80 MPa | **205** | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | **218** | °C | ISO 75-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | **V-0** | class | IEC 60695-11-10 |
| Thickness tested | **1.6** | mm | - |
| Burning behav. at thickness h | **V-0** | class | IEC 60695-11-10 |
| Thickness tested | **0.8** | mm | - |
| Glow Wire Flammability Index (GWFI) | **960** | °C | IEC 60695-2-12 |
| GWFI - thickness tested (1) | **0.4** | mm | - |
| Glow Wire Flammability Index (GWFI) | **960** | °C | IEC 60695-2-12 |
| GWFI - thickness tested (2) | **0.8** | mm | - |
| Glow Wire Flammability Index (GWFI) | **960** | °C | IEC 60695-2-12 |
| GWFI - thickness tested (3) | **1.6** | mm | - |

| Electrical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Electric strength | **9** | kV/mm | IEC 60243-1 |
| Comparative tracking index | **600** | - | IEC 60112 |

| Other properties | Value | Unit | Test Standard |
|---|---|---|---|
| Density | **1430** | kg/m³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|---|---|---|
| Melt temperature | **270** | °C | - |
| Mold temperature | **80** | °C | - |
| Injection pressure | **75** | MPa | - |

## Characteristics

**Processing**
Injection Molding

**Special Characteristics**
Flame retardant, Halogen-free

**Certifications**
RoHS compliant

**Applications**
Electrical and Electronical

**Regional Availability**
Europe, Asia Pacific