# AKROMID® A3 GF 60 natural (2424)

PA66-GF60 Akro-Plastic GmbH

| Processing/Physical Characteristics | dry / cond | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Molding shrinkage, parallel | **0.4 / *** | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | **0.8 / *** | % | ISO 294-4, 2577 |

| Mechanical properties | dry / cond | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Tensile Modulus | **20500 / 15800** | MPa | ISO 527 |
| Stress at break | **260 / 190** | MPa | ISO 527 |
| Strain at break | **2 / 2.5** | % | ISO 527 |
| Flexural modulus, 23°C | **19800 / -** | MPa | ISO 178 |
| Flexural strength | **400 / -** | MPa | ISO 178 |
| Charpy impact strength, +23°C | **102 / 105** | kJ/m² | ISO 179/1eU |
| Charpy impact strength, -30°C | **97 / -** | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | **19 / 22** | kJ/m² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | **19 / -** | kJ/m² | ISO 179/1eA |
| Ball indentation hardness | **330 / -** | MPa | ISO 2039-1 |

| Thermal properties | dry / cond | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Melting temperature, 10°C/min | **262 / *** | °C | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.80 MPa | **260 / *** | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | **260 / *** | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 8.00 MPa | **235 / *** | °C | ISO 75-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | **HB / *** | class | IEC 60695-11-10 |
| Thickness tested | **1.6 / *** | mm | - |
| Glow Wire Flammability Index (GWFI) | **650** | °C | IEC 60695-2-12 |
| GWFI - thickness tested (1) | **1.6** | mm | - |

| Electrical properties | dry / cond | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Volume resistivity | **1E11 / 1E8** | Ohm*m | IEC 62631-3-1 |
| Surface resistivity | *** / 1E10** | Ohm | IEC 62631-3-2 |
| Comparative tracking index | **600 / -** | - | IEC 60112 |

| Other properties | dry / cond | Unit | Test Standard |
|---|---|---|---|
| Water absorption | **3.7 / *** | % | Sim. to ISO 62 |
| Density | **1710 / -** | kg/m³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|---|---|---|
| Melt temperature | **320** | °C | - |
| Mold temperature | **100** | °C | - |
| Injection pressure | **75** | MPa | - |

## Characteristics

**Processing**
Injection Molding

**Applications**
Automotive

**Delivery form**
Natural Color

**Regional Availability**
Europe, Asia Pacific