## AKROMID® B3 1 black (6528)

PA6 Akro-Plastic GmbH

| Processing/Physical Characteristics | dry / cond | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Molding shrinkage, parallel | **1.1 / *** | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | **1.0 / *** | % | ISO 294-4, 2577 |

| Mechanical properties | dry / cond | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Tensile Modulus | **3600 / 1200** | MPa | ISO 527 |
| Yield stress | **85 / 45** | MPa | ISO 527 |
| Flexural modulus, 23°C | **3100 / -** | MPa | ISO 178 |
| Flexural strength | **120 / -** | MPa | ISO 178 |
| Charpy impact strength, +23°C | **N / N** | kJ/m² | ISO 179/1eU |
| Charpy impact strength, -30°C | **N / -** | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | **5 / 16** | kJ/m² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | **2 / -** | kJ/m² | ISO 179/1eA |

| Thermal properties | dry / cond | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Melting temperature, 10°C/min | **220 / *** | °C | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.80 MPa | **60 / *** | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | **180 / *** | °C | ISO 75-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | **V-2 / *** | class | IEC 60695-11-10 |
| Thickness tested | **1.6 / *** | mm | - |
| Glow Wire Flammability Index (GWFI) | **750** | °C | IEC 60695-2-12 |
| GWFI - thickness tested (1) | **1.6** | mm | - |
| Glow Wire Ignition Temperature (GWIT) | **675** | °C | IEC 60695-2-13 |
| GWIT - thickness tested (1) | **1.6** | mm | - |

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

| Other properties | dry / cond | Unit | Test Standard |
|---|---|---|---|
| Density | **1130 / -** | 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**
Heat stabilized or stable to heat

**Delivery form**
Black

**Regional Availability**
Europe, Asia Pacific