

AKROMID® B3 GF 45 1 black (5744)

PA6-GF45

Akro-Plastic GmbH

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|------|-----------------|
| ISO Data | | | |
| Molding shrinkage, parallel | 0.2 | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 0.6 | % | ISO 294-4, 2577 |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 14000 | MPa | ISO 527 |
| Stress at break | 200 | MPa | ISO 527 |
| Strain at break | 4.5 | % | ISO 527 |
| Flexural modulus, 23°C | 13000 | MPa | ISO 178 |
| Flexural strength | 315 | MPa | ISO 178 |
| Charpy impact strength, +23°C | 110 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength, -30°C | 95 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | 22 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 18 | kJ/m ² | ISO 179/1eA |

| Thermal properties | Value | Unit | Test Standard |
|--|-------|-------|-----------------|
| ISO Data | | | |
| Melting temperature, 10°C/min | 220 | °C | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.80 MPa | 200 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 220 | °C | ISO 75-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | HB | class | IEC 60695-11-10 |
| Thickness tested | 1.6 | mm | - |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1500 | kg/m ³ | 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

Delivery form

Black

Special Characteristics

Heat stabilized or stable to heat

Applications

Automotive, Sports Equipment

Regional Availability

Europe, Asia Pacific