

**AKROMID® T5 GF 50 black (6247)**

PPA-GF50

Akro-Plastic GmbH

| Processing/Physical Characteristics | dry / cond | Unit | Test Standard   |
|-------------------------------------|------------|------|-----------------|
| <b>ISO Data</b>                     |            |      |                 |
| Molding shrinkage, parallel         | 0.2 / *    | %    | ISO 294-4, 2577 |
| Molding shrinkage, normal           | 0.5 / *    | %    | ISO 294-4, 2577 |

| Mechanical properties                 | dry / cond    | Unit              | Test Standard |
|---------------------------------------|---------------|-------------------|---------------|
| <b>ISO Data</b>                       |               |                   |               |
| Tensile Modulus                       | 20000 / 20000 | MPa               | ISO 527       |
| Stress at break                       | 280 / 280     | MPa               | ISO 527       |
| Strain at break                       | 2.1 / 2.1     | %                 | ISO 527       |
| Flexural modulus, 23°C                | 19000 / 19000 | MPa               | ISO 178       |
| Flexural strength                     | 440 / 380     | MPa               | ISO 178       |
| Charpy impact strength, +23°C         | 90 / 83       | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Charpy impact strength, -30°C         | 75 / 75       | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Charpy notched impact strength, +23°C | 13 / 13       | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Charpy notched impact strength, -30°C | 12 / 11       | kJ/m <sup>2</sup> | ISO 179/1eA   |

| Thermal properties                          | dry / cond | Unit  | Test Standard   |
|---|------------|-------|-----------------|
| <b>ISO Data</b>                             |            |       |                 |
| Melting temperature, 10°C/min               | 325 / *    | °C    | ISO 11357-1/-3  |
| Temp. of deflection under load, 1.80 MPa    | 280 / *    | °C    | ISO 75-1/-2     |
| Temp. of deflection under load, 8.00 MPa    | 237 / *    | °C    | ISO 75-1/-2     |
| Coeff. of linear therm. expansion, parallel | 14 / *     | E-6/K | ISO 11359-1/-2  |
| Coeff. of linear therm. expansion, normal   | 47 / *     | E-6/K | ISO 11359-1/-2  |
| Burning behav. at 1.5 mm nom. thckn.        | HB / *     | class | IEC 60695-11-10 |
| Thickness tested                            | 1.6 / *    | mm    | -               |

| Other properties | dry / cond | Unit              | Test Standard |
|------------------|------------|-------------------|---------------|
| Density          | 1650 / -   | kg/m <sup>3</sup> | ISO 1183      |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-------|------|---------------|
| Melt temperature                            | 340   | °C   | -             |
| Mold temperature                            | 130   | °C   | -             |
| Injection pressure                          | 75    | MPa  | -             |

**Characteristics****Processing**

Injection Molding

**Delivery form**

Black

**Special Characteristics**

Heat stabilized or stable to heat

**Chemical Resistance**

General Chemical Resistance

**Applications**

Automotive, Electrical and Electronical

**Regional Availability**

Europe, Asia Pacific