

**AKROMID® A3 ICF 30 TM black (7019)**

(PA66+PTFE)-CF30

Akro-Plastic GmbH

| <b>Processing/Physical Characteristics</b> | <b>dry / cond</b> | <b>Unit</b> | <b>Test Standard</b> |
|--|-------------------|-------------|----------------------|
| <b>ISO Data</b>                            |                   |             |                      |
| Molding shrinkage, parallel                | 0.2 / *           | %           | ISO 294-4, 2577      |
| Molding shrinkage, normal                  | 0.6 / *           | %           | ISO 294-4, 2577      |

| <b>Mechanical properties</b>          | <b>dry / cond</b> | <b>Unit</b>       | <b>Test Standard</b> |
|---------------------------------------|-------------------|-------------------|----------------------|
| <b>ISO Data</b>                       |                   |                   |                      |
| Tensile Modulus                       | 24000 / -         | MPa               | ISO 527              |
| Stress at break                       | 200 / -           | MPa               | ISO 527              |
| Strain at break                       | 1.5 / -           | %                 | ISO 527              |
| Flexural modulus, 23°C                | 19800 / -         | MPa               | ISO 178              |
| Flexural strength                     | 300 / -           | MPa               | ISO 178              |
| Charpy impact strength, +23°C         | 45 / -            | kJ/m <sup>2</sup> | ISO 179/1eU          |
| Charpy impact strength, -30°C         | 40 / -            | kJ/m <sup>2</sup> | ISO 179/1eU          |
| Charpy notched impact strength, +23°C | 7 / -             | kJ/m <sup>2</sup> | ISO 179/1eA          |
| Charpy notched impact strength, -30°C | 6 / -             | kJ/m <sup>2</sup> | ISO 179/1eA          |

| <b>Thermal properties</b>                | <b>dry / cond</b> | <b>Unit</b> | <b>Test Standard</b> |
|--|-------------------|-------------|----------------------|
| <b>ISO Data</b>                          |                   |             |                      |
| Melting temperature, 10°C/min            | 262 / *           | °C          | ISO 11357-1/-3       |
| Temp. of deflection under load, 1.80 MPa | 250 / *           | °C          | ISO 75-1/-2          |

| <b>Other properties</b> | <b>dry / cond</b> | <b>Unit</b>       | <b>Test Standard</b> |
|-------------------------|-------------------|-------------------|----------------------|
| Density                 | 1300 / -          | kg/m <sup>3</sup> | ISO 1183             |

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

**Characteristics****Processing**

Injection Molding

**Features**

Tribologic Grade

**Delivery form**

Black

**Regional Availability**

Europe, Asia Pacific

**Additives**

Lubricants