

# Akulon<sup>®</sup> IG—HG10

## (PA46+PA6)—GF50

50% Glass Reinforced, Heat Stabilized

| PROPERTIES                                | TYPICAL DATA | UNIT              | TEST METHOD    |
|-------------------------------------------|--------------|-------------------|----------------|
| <b>MECHANICAL PROPERTIES</b>              |              |                   |                |
|                                           | DRY / COND   |                   |                |
| Tensile modulus                           | 16000 / —    | MPa               | ISO 527-1/-2   |
| Tensile modulus (120°C)                   | 7500 / —     | MPa               | ISO 527-1/-2   |
| Tensile modulus (200°C)                   | 5100         | MPa               | ISO 527-1/-2   |
| Stress at break                           | 240 / —      | MPa               | ISO 527-1/-2   |
| Stress at break (120°C)                   | 115 / —      | MPa               | ISO 527-1/-2   |
| Stress at break (200°C)                   | 65           | MPa               | ISO 527-1/-2   |
| Strain at break                           | 2.7 / —      | %                 | ISO 527-1/-2   |
| Strain at break (120°C)                   | 6.5 / —      | %                 | ISO 527-1/-2   |
| Strain at break (200°C)                   | 7            | %                 | ISO 527-1/-2   |
| Charpy impact strength (+23°C)            | 90 / —       | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Charpy notched impact strength (+23°C)    | 14 / —       | kJ/m <sup>2</sup> | ISO 179/1eA    |
| <b>THERMAL PROPERTIES</b>                 |              |                   |                |
|                                           | DRY / COND   |                   |                |
| Melting temperature (10°C/min)            | 280 / *      | °C                | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 258 / *      | °C                | ISO 75-1/-2    |

