

# Akulon<sup>®</sup> IG–HG7

## (PA46+PA6)–GF35

35% Glass Reinforced, Heat Stabilized

| PROPERTIES                             | TYPICAL DATA | UNIT  | TEST METHOD       |
|----------------------------------------|--------------|-------|-------------------|
| <b>RHEOLOGICAL PROPERTIES</b>          |              |       |                   |
|                                        | DRY / COND   |       |                   |
| Molding shrinkage [parallel]           | 0.4 / *      | %     | Sim. to ISO 294–4 |
| Molding shrinkage [normal]             | 1.1 / *      | %     | Sim. to ISO 294–4 |
| <b>MECHANICAL PROPERTIES</b>           |              |       |                   |
|                                        | DRY / COND   |       |                   |
| Tensile modulus                        | 12000 / 6500 | MPa   | ISO 527–1/–2      |
| Tensile modulus (120°C)                | 5200 / –     | MPa   | ISO 527–1/–2      |
| Tensile modulus (180°C)                | 4500         | MPa   | ISO 527–1/–2      |
| Tensile modulus (200°C)                | 3800         | MPa   | ISO 527–1/–2      |
| Stress at break                        | 210 / 130    | MPa   | ISO 527–1/–2      |
| Stress at break (120°C)                | 100 / –      | MPa   | ISO 527–1/–2      |
| Stress at break (180°C)                | 85           | MPa   | ISO 527–1/–2      |
| Stress at break (200°C)                | 60           | MPa   | ISO 527–1/–2      |
| Strain at break                        | 3.2 / 8      | %     | ISO 527–1/–2      |
| Strain at break (120°C)                | 8.5 / –      | %     | ISO 527–1/–2      |
| Strain at break (180°C)                | 9            | %     | ISO 527–1/–2      |
| Strain at break (200°C)                | 9            | %     | ISO 527–1/–2      |
| Flexural modulus                       | 11300 / 6000 | MPa   | ISO 178           |
| Flexural strength                      | 320 / 180    | MPa   | ISO 178           |
| Charpy impact strength (+23°C)         | 80 / –       | kJ/m² | ISO 179/1eU       |
| Charpy notched impact strength (+23°C) | 13 / –       | kJ/m² | ISO 179/1eA       |
| <b>THERMAL PROPERTIES</b>              |              |       |                   |
|                                        | DRY / COND   |       |                   |
| Melting temperature (10°C/min)         | 280 / *      | °C    | ISO 11357–1/–3    |



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| PROPERTIES                                | TYPICAL DATA | UNIT       | TEST METHOD    |
|-------------------------------------------|--------------|------------|----------------|
| Temp. of deflection under load (1.80 MPa) | 255 / *      | °C         | ISO 75–1/–2    |
| OTHER PROPERTIES                          |              | DRY / COND |                |
| Humidity absorption                       | 2.1 / *      | %          | Sim. to ISO 62 |
| Density                                   | 1440 / –     | kg/m³      | ISO 1183       |

