

# Akulon<sup>®</sup> Diablo HT—HG0

## (PA66+PA6)—GF50

50% Glass Fiber Reinforced, Heat Stabilized

Print Date: 2025-10-04

| PROPERTIES                                | TYPICAL DATA  | UNIT              | TEST METHOD    |
|---|---------------|-------------------|----------------|
| <b>RHEOLOGICAL PROPERTIES</b>             |               | <b>DRY / COND</b> |                |
| Molding shrinkage (parallel)              | 0.3 / *       | %                 | ISO 294-4      |
| Molding shrinkage (normal)                | 1 / *         | %                 | ISO 294-4      |
| <b>MECHANICAL PROPERTIES</b>              |               | <b>DRY / COND</b> |                |
| Tensile modulus                           | 16500 / 10000 | MPa               | ISO 527-1/-2   |
| Stress at break                           | 235 / 145     | MPa               | ISO 527-1/-2   |
| Strain at break                           | 2.8 / 4.6     | %                 | ISO 527-1/-2   |
| Flexural modulus                          | 16000 / —     | MPa               | ISO 178        |
| Flexural strength                         | 360 / —       | MPa               | ISO 178        |
| Tensile modulus (200°C)                   | 4100          | MPa               | ISO 527-1/-2   |
| Stress at break (200°C)                   | 60            | MPa               | ISO 527-1/-2   |
| Strain at break (200°C)                   | 7.2           | %                 | ISO 527-1/-2   |
| Charpy impact strength (+23°C)            | 95 / 100      | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Charpy impact strength (-30°C)            | 80 / 90       | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Charpy notched impact strength (+23°C)    | 15.5 / 25     | kJ/m <sup>2</sup> | ISO 179/1eA    |
| Charpy notched impact strength (-30°C)    | 14 / 16       | kJ/m <sup>2</sup> | ISO 179/1eA    |
| <b>THERMAL PROPERTIES</b>                 |               | <b>DRY / COND</b> |                |
| Melting temperature (10°C/min)            | 260 / *       | °C                | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 245 / *       | °C                | ISO 75-1/-2    |
| Temp. of deflection under load (0.45 MPa) | 255 / *       | °C                | ISO 75-1/-2    |
| <b>OTHER PROPERTIES</b>                   |               | <b>DRY / COND</b> |                |

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|---------------------|--------------|-------|----------------|
| Water absorption    | 4.8 / *      | %     | Sim. to ISO 62 |
| Humidity absorption | 1.7 / *      | %     | Sim. to ISO 62 |
| Density             | 1580 / –     | kg/m³ | ISO 1183       |

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