

# Akulon® Diablo HT-HGo

## (PA66+PA6)-GF50

50% Glass Reinforced, Heat Stabilized

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| 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                           | 17000 / 10000     | MPa               | ISO 527-1/-2   |
| Stress at break                           | 230 / 145         | MPa               | ISO 527-1/-2   |
| Strain at break                           | 2.4 / 4.6         | %                 | 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)    | 14 / -            | kJ/m <sup>2</sup> | ISO 179/1eA    |
| Charpy notched impact strength (-30°C)    | 12 / -            | 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> |                   |                |
| Water absorption                          | 4.8 / *           | %                 | Sim. to ISO 62 |
| Humidity absorption                       | 1.7 / *           | %                 | Sim. to ISO 62 |
| Density                                   | 1580 / -          | kg/m <sup>3</sup> | ISO 1183       |


**DSM**

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