

# Akulon<sup>®</sup> AKV35XTS5

 Akulon<sup>®</sup> Diablo HDT2500

## (PA66+PA6)—GF35

35% Glass Fiber Reinforced, Heat Stabilized

Print Date: 2026-01-28

| 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)                   | 0.9 / *           | %                 | ISO 294-4      |
| <b>MECHANICAL PROPERTIES</b>                 |                   |                   |                |
|  | <b>DRY / COND</b> |                   |                |
| Tensile modulus                              | 11000 / 6500      | MPa               | ISO 527-1/-2   |
| Stress at break                              | 195 / 115         | MPa               | ISO 527-1/-2   |
| Strain at break                              | 3.2 / 7           | %                 | ISO 527-1/-2   |
| Flexural modulus                             | 10500 / 6300      | MPa               | ISO 178        |
| Flexural strength                            | 290 / 175         | MPa               | ISO 178        |
| Tensile modulus (200°C)                      | 3200              | MPa               | ISO 527-1/-2   |
| Stress at break (200°C)                      | 60                | MPa               | ISO 527-1/-2   |
| Strain at break (200°C)                      | 9.6               | %                 | ISO 527-1/-2   |
| Charpy impact strength (+23°C)               | 80 / 85           | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Charpy impact strength (-30°C)               | 60 / 60           | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Charpy notched impact strength (+23°C)       | 11 / 16           | kJ/m <sup>2</sup> | ISO 179/1eA    |
| Charpy notched impact strength (-30°C)       | 9 / 9             | 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)    | 240 / *           | °C                | ISO 75-1/-2    |
| Temp. of deflection under load (0.45 MPa)    | 258 / *           | °C                | ISO 75-1/-2    |
| Coeff. of linear therm. expansion (parallel) | 0.4 / *           | E-4/°C            | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal)   | 0.5 / *           | E-4/°C            | ISO 11359-1/-2 |

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## Property Data

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| <i>PROPERTIES</i>                   | <i>TYPICAL DATA</i> | <i>UNIT</i>        | <i>TEST METHOD</i>  |
|-------------------------------------|---------------------|--------------------|---------------------|
| <b>OTHER PROPERTIES</b>             |                     |                    |                     |
| Water absorption                    | 5 / *               | %                  | Sim. to ISO 62      |
| Humidity absorption                 | 2.1 / *             | %                  | Sim. to ISO 62      |
| Density                             | 1410 / –            | kg/m <sup>3</sup>  | ISO 1183            |
| <b>MATERIAL SPECIFIC PROPERTIES</b> |                     |                    |                     |
| Viscosity number                    | 135 / *             | cm <sup>3</sup> /g | ISO 307, 1157, 1628 |

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