

# Durethan® BKV30H2.0UF

Akulon® Ultraflow K–FHG6

## PA6–GF30

30% Glass Fiber Reinforced, Heat Stabilized, High Flow

Print Date: 2026–04–09

| 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)                   | 1.1 / *           | %                 | ISO 294–4      |
| <b>MECHANICAL PROPERTIES</b>                 |                   |                   |                |
|  | <b>DRY / COND</b> |                   |                |
| Tensile modulus                              | 9500 / 5700       | MPa               | ISO 527–1/–2   |
| Stress at break                              | 175 / 105         | MPa               | ISO 527–1/–2   |
| Strain at break                              | 3.3 / 7           | %                 | ISO 527–1/–2   |
| Flexural modulus                             | 9000 / 5500       | MPa               | ISO 178        |
| Flexural strength                            | 270 / 160         | MPa               | ISO 178        |
| Tensile modulus (200°C)                      | 2650              | MPa               | ISO 527–1/–2   |
| Stress at break (200°C)                      | 40                | MPa               | ISO 527–1/–2   |
| Strain at break (200°C)                      | 8.4               | %                 | ISO 527–1/–2   |
| Charpy impact strength (+23°C)               | 85 / 90           | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Charpy impact strength (–30°C)               | 65 / 65           | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Charpy notched impact strength (+23°C)       | 12.5 / 22         | kJ/m <sup>2</sup> | ISO 179/1eA    |
| Charpy notched impact strength (–30°C)       | 10 / 10           | kJ/m <sup>2</sup> | ISO 179/1eA    |
| <b>THERMAL PROPERTIES</b>                    |                   |                   |                |
|  | <b>DRY / COND</b> |                   |                |
| Melting temperature (10°C/min)               | 220 / *           | °C                | ISO 11357–1/–3 |
| Temp. of deflection under load (1.80 MPa)    | 200 / *           | °C                | ISO 75–1/–2    |
| Temp. of deflection under load (0.45 MPa)    | 220 / *           | °C                | ISO 75–1/–2    |
| Coeff. of linear therm. expansion (parallel) | 0.2 / *           | E–4/°C            | ISO 11359–1/–2 |
| Coeff. of linear therm. expansion (normal)   | 0.7 / *           | E–4/°C            | ISO 11359–1/–2 |

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## Property Data

# Durethan<sup>®</sup> BKV30H2.0UF

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| <i>PROPERTIES</i>                   | <i>TYPICAL DATA</i> | <i>UNIT</i>       | <i>TEST METHOD</i> |
|-------------------------------------|---------------------|-------------------|--------------------|
| <b><i>ELECTRICAL PROPERTIES</i></b> |                     |                   |                    |
| <i>DRY / COND</i>                   |                     |                   |                    |
| Relative permittivity (100Hz)       | 3.5 / 14            | –                 | IEC 62631-2-1      |
| Relative permittivity (1 MHz)       | 3.3 / 5             | –                 | IEC 62631-2-1      |
| Dissipation factor (100 Hz)         | 50 / 3000           | E-4               | IEC 62631-2-1      |
| Dissipation factor (1 MHz)          | 150 / 1200          | E-4               | IEC 62631-2-1      |
| Volume resistivity                  | >1E13 / 1E12        | Ohm*m             | IEC 62631-3-1      |
| Surface resistivity                 | – / 1E13            | Ohm               | IEC 62631-3-2      |
| Comparative tracking index          | * / 450             | V                 | IEC 60112          |
| <b><i>OTHER PROPERTIES</i></b>      |                     |                   |                    |
| <i>DRY / COND</i>                   |                     |                   |                    |
| Water absorption                    | 6 / *               | %                 | Sim. to ISO 62     |
| Humidity absorption                 | 1.8 / *             | %                 | Sim. to ISO 62     |
| Density                             | 1350 / –            | kg/m <sup>3</sup> | ISO 1183           |

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