

# Durethan® BKV30FN02UF

Akulon® Ultraflow XG-FKGS6

## PA6-GF30 FR(40)

30% Glass Fiber Reinforced, Flame Retardant (halogen free)

Print Date: 2026-02-06

| PROPERTIES                                   | TYPICAL DATA      | UNIT              | TEST METHOD       |
|--|-------------------|-------------------|-------------------|
| <b>RHEOLOGICAL PROPERTIES</b>                |                   |                   |                   |
|  | <b>DRY / COND</b> |                   |                   |
| Molding shrinkage [parallel]                 | 0.2 / *           | %                 | Sim. to ISO 294-4 |
| Molding shrinkage [normal]                   | 0.6 / *           | %                 | Sim. to ISO 294-4 |
| <b>MECHANICAL PROPERTIES</b>                 |                   |                   |                   |
|  | <b>DRY / COND</b> |                   |                   |
| Tensile modulus                              | 11500 / 7500      | MPa               | ISO 527-1/-2      |
| Stress at break                              | 155 / 95          | MPa               | ISO 527-1/-2      |
| Strain at break                              | 3 / 4             | %                 | ISO 527-1/-2      |
| Flexural modulus                             | 11200 / 7850      | MPa               | ISO 178           |
| Flexural strength                            | 230 / 160         | MPa               | ISO 178           |
| Charpy impact strength (+23°C)               | 65 / 65           | kJ/m <sup>2</sup> | ISO 179/1eU       |
| Charpy impact strength (-30°C)               | 55 / 45           | kJ/m <sup>2</sup> | ISO 179/1eU       |
| Charpy notched impact strength (+23°C)       | 10 / 12           | kJ/m <sup>2</sup> | ISO 179/1eA       |
| Charpy notched impact strength (-30°C)       | 9.5 / 9           | 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)    | 205 / *           | °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    |
| Thermal conductivity in plane                | 0.45              | W/(m K)           | ASTM E1461        |
| Thermal conductivity through plane           | 0.4               | W/(m K)           | ASTM E1461        |
| Burning Behav. at 1.5 mm nom. thickn.        | V-0 / *           | class             | IEC 60695-11-10   |
| Thickness tested                             | 1.5 / *           | mm                | IEC 60695-11-10   |

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## Property Data

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| PROPERTIES                             | TYPICAL DATA      | UNIT  | TEST METHOD     |
|--|-------------------|-------|-----------------|
| Burning Behav. at 3.0 mm nom. thickn.  | V-0 / *           | class | IEC 60695-11-10 |
| Thickness tested                       | 3 / *             | mm    | IEC 60695-11-10 |
| Burning Behav. at 0.4 mm nom. thickn.  | V-0 / *           | class | IEC 60695-11-10 |
| Thickness tested                       | 0.4 / *           | mm    | IEC 60695-11-10 |
| Burning Behav. at 0.75 mm nom. thickn. | V-0 / *           | class | IEC 60695-11-10 |
| Thickness tested                       | 0.75 / *          | mm    | IEC 60695-11-10 |
| Glow Wire Flammability Index GWFI      | 960 / -           | °C    | IEC 60695-2-12  |
| GWFI (Thickness (1) tested)            | 1.6 / -           | mm    | IEC 60695-2-12  |
| Glow Wire Flammability Index GWFI      | 960 / -           | °C    | IEC 60695-2-12  |
| GWFI (Thickness (2) tested)            | 0.8 / -           | mm    | IEC 60695-2-12  |
| Glow Wire Ignition Temperature GWIT    | 775 / -           | °C    | IEC 60695-2-13  |
| GWIT (Thickness (1) tested)            | 1.6 / -           | mm    | IEC 60695-2-13  |
| Glow Wire Ignition Temperature GWIT    | 775 / -           | °C    | IEC 60695-2-13  |
| GWIT (Thickness (2) tested)            | 1 / -             | mm    | IEC 60695-2-13  |
| <b>ELECTRICAL PROPERTIES</b>           | <b>DRY / COND</b> |       |                 |
| Electric strength                      | 40 / -            | kV/mm | IEC 60243-1     |
| Comparative tracking index             | 600 / 600         | V     | IEC 60112       |
| <b>OTHER PROPERTIES</b>                | <b>DRY / COND</b> |       |                 |
| Humidity absorption                    | 1.7 / *           | %     | Sim. to ISO 62  |
| Density                                | 1470 / -          | kg/m³ | ISO 1183        |

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