

# Durethan<sup>®</sup> BKV230H2.0

## PA\*—I—GF30

30% Glass Fiber Reinforced, Injection Molding, Heat Stabilized, Impact Modified

Print Date: 2025-08-21

| 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)                   | 0.7 / *           | %                 | ISO 294-4       |
| <b>MECHANICAL PROPERTIES</b>                 | <b>DRY / COND</b> |                   |                 |
| Tensile modulus                              | 8100 / 4400       | MPa               | ISO 527-1/-2    |
| Stress at break                              | 130 / 80          | MPa               | ISO 527-1/-2    |
| Strain at break                              | 4 / 8             | %                 | ISO 527-1/-2    |
| Flexural modulus                             | 7300 / 4100       | MPa               | ISO 178         |
| Flexural strength                            | 220 / 115         | MPa               | ISO 178         |
| Charpy impact strength (+23°C)               | 90 / 100          | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy impact strength (-30°C)               | 95 / 95           | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy notched impact strength (+23°C)       | 25 / 45           | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Charpy notched impact strength (-30°C)       | 20 / 20           | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Izod notched impact strength (+23°C)         | 25 / 35           | kJ/m <sup>2</sup> | ISO 180/1A      |
| <b>THERMAL PROPERTIES</b>                    | <b>DRY / COND</b> |                   |                 |
| Melting temperature (10°C/min)               | 213 / *           | °C                | ISO 11357-1/-3  |
| Temp. of deflection under load (1.80 MPa)    | 190 / *           | °C                | ISO 75-1/-2     |
| Temp. of deflection under load (0.45 MPa)    | 200 / *           | °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)   | 1.3 / *           | E-4/°C            | ISO 11359-1/-2  |
| Burning Behav. at 1.5 mm nom. thickn.        | HB / *            | class             | IEC 60695-11-10 |
| Thickness tested                             | 1.5 / *           | mm                | IEC 60695-11-10 |

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| PROPERTIES                        | TYPICAL DATA | UNIT       | TEST METHOD          |
|-----------------------------------|--------------|------------|----------------------|
| Glow Wire Flammability Index GWFI | 650 / –      | °C         | IEC 60695-2-12       |
| GWFI (Thickness (1) tested)       | 2 / –        | mm         | IEC 60695-2-12       |
| ELECTRICAL PROPERTIES             |              | DRY / COND |                      |
| Comparative tracking index        | 450 / –      | V          | IEC 60112            |
| OTHER PROPERTIES                  |              | DRY / COND |                      |
| Water absorption                  | 6 / *        | %          | Sim. to ISO 62       |
| Humidity absorption               | 1.8 / *      | %          | Sim. to ISO 62       |
| Density                           | 1320 / –     | kg/m³      | ISO 1183             |
| PROCESSING RECOMMENDATIONS        |              | VALUE      |                      |
| Drying temperature dry air dryer  | 80           | °C         |                      |
| Drying time dry air dryer         | 2-6          | h          |                      |
| Residual moisture content         | 0.03-0.12    | %          | acc. to Karl Fischer |
| Melt temperature (Tmin – Tmax)    | 260-290      | °C         |                      |
| Mold temperature                  | 80-100       | °C         |                      |

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