

# Durethan® BKV25H2.0

## PA6–GF25

25% Glass Reinforced, Injection Molding, Heat Stabilized

Print Date: 2024–08–24

| PROPERTIES                                | TYPICAL DATA      | UNIT              | TEST METHOD     |
|-------------------------------------------|-------------------|-------------------|-----------------|
| <b>MECHANICAL PROPERTIES</b>              |                   |                   |                 |
|                                           | <b>DRY / COND</b> |                   |                 |
| Tensile modulus                           | 8400 / 5100       | MPa               | ISO 527–1/–2    |
| Stress at break                           | 160 / 90          | MPa               | ISO 527–1/–2    |
| Strain at break                           | 3 / 6             | %                 | ISO 527–1/–2    |
| Flexural modulus                          | 7200 / 4200       | MPa               | ISO 178         |
| Flexural strength                         | 250 / 145         | MPa               | ISO 178         |
| Charpy impact strength (+23°C)            | 60 / 80           | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy impact strength (–30°C)            | 45 / 45           | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy notched impact strength (+23°C)    | <10 / 10          | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Charpy notched impact strength (–30°C)    | <10 / <10         | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Izod notched impact strength (–40°C)      | <10 / <10         | kJ/m <sup>2</sup> | ISO 180/1A      |
| <b>THERMAL PROPERTIES</b>                 |                   |                   |                 |
|                                           | <b>DRY / COND</b> |                   |                 |
| Melting temperature (10°C/min)            | 222 / *           | °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) | 215 / *           | °C                | ISO 75–1/–2     |
| Burning Behav. at 1.5 mm nom. thickn.     | HB / *            | class             | IEC 60695–11–10 |
| Thickness tested                          | 1.5 / *           | mm                | IEC 60695–11–10 |
| Burning Behav. at 0.75 mm nom. thickn.    | HB / *            | class             | IEC 60695–11–10 |
| Thickness tested                          | 0.75 / *          | mm                | IEC 60695–11–10 |
| <b>OTHER PROPERTIES</b>                   |                   |                   |                 |
|                                           | <b>DRY / COND</b> |                   |                 |
| Density                                   | 1320 / –          | kg/m <sup>3</sup> | ISO 1183        |

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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>MATERIAL SPECIFIC PROPERTIES</b> |                     |                    |                      |
| Viscosity number                    | 140 / *             | cm <sup>3</sup> /g | ISO 307, 1157, 1628  |
| <b>PROCESSING RECOMMENDATIONS</b>   |                     |                    |                      |
| 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)      | 270-290             | °C                 |                      |
| Mold temperature                    | 80-120              | °C                 |                      |

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