

# Durethan® BKV20H2.0EF DUS001

## PA6–GF20

20% Glass Reinforced, Injection Molding, Heat Stabilized, Improved flow

Print Date: 2024–08–24

| 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)                   | 0.5 / *           | %                 | ISO 294–4      |
| <b>MECHANICAL PROPERTIES</b>                 |                   |                   |                |
|  | <b>DRY / COND</b> |                   |                |
| Tensile modulus                              | 6700 / 3500       | MPa               | ISO 527–1/–2   |
| Stress at break                              | 150 / 80          | MPa               | ISO 527–1/–2   |
| Strain at break                              | 3.5 / 8           | %                 | ISO 527–1/–2   |
| Flexural modulus                             | 6900 / 3600       | MPa               | ISO 178        |
| Flexural strength                            | 225 / 135         | MPa               | ISO 178        |
| Charpy impact strength (+23°C)               | 45 / 85           | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Charpy impact strength (–30°C)               | 40 / –            | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Charpy notched impact strength (+23°C)       | <10 / 15          | kJ/m <sup>2</sup> | ISO 179/1eA    |
| Charpy notched impact strength (–30°C)       | <10 / –           | kJ/m <sup>2</sup> | ISO 179/1eA    |
| Izod notched impact strength (+23°C)         | <10 / 15          | kJ/m <sup>2</sup> | ISO 180/1A     |
| <b>THERMAL PROPERTIES</b>                    |                   |                   |                |
|  | <b>DRY / COND</b> |                   |                |
| Melting temperature (10°C/min)               | 221 / *           | °C                | ISO 11357–1/–3 |
| Temp. of deflection under load (1.80 MPa)    | 195 / *           | °C                | ISO 75–1/–2    |
| Temp. of deflection under load (0.45 MPa)    | 215 / *           | °C                | ISO 75–1/–2    |
| Coeff. of linear therm. expansion (parallel) | 0.3 / *           | E–4/°C            | ISO 11359–1/–2 |
| Coeff. of linear therm. expansion (normal)   | 1.1 / *           | E–4/°C            | ISO 11359–1/–2 |
| <b>OTHER PROPERTIES</b>                      |                   |                   |                |
|  | <b>DRY / COND</b> |                   |                |

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## Property Data

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| <i>PROPERTIES</i>                        | <i>TYPICAL DATA</i> | <i>UNIT</i>         | <i>TEST METHOD</i> |
|--|---------------------|---------------------|--------------------|
| Density                                  | 1270 / –            | kg/m <sup>3</sup>   | ISO 1183           |
| <b><i>PROCESSING RECOMMENDATIONS</i></b> |                     | <b><i>VALUE</i></b> |                    |
| Drying temperature dry air dryer         | 80                  | °C                  |                    |
| Drying time dry air dryer                | 2–6                 | h                   |                    |
| Melt temperature (Tmin – Tmax)           | 260–280             | °C                  |                    |
| Mold temperature                         | 80–120              | °C                  |                    |

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