

# Durethan<sup>®</sup> ECOBKV35H2.0

## PA6–GF35

35% Glass Reinforced, Injection Molding, Heat Stabilized, Recycled Content

Print Date: 2024–08–24

### Sustainability

Mass balanced  
 Recycled based

| PROPERTIES                                | TYPICAL DATA      | UNIT              | TEST METHOD    |
|---|-------------------|-------------------|----------------|
| <b>RHEOLOGICAL PROPERTIES</b>             |                   |                   |                |
|   | <b>DRY / COND</b> |                   |                |
| Molding shrinkage (parallel)              | 0.25 / *          | %                 | ISO 294–4      |
| Molding shrinkage (normal)                | 0.7 / *           | %                 | ISO 294–4      |
| <b>MECHANICAL PROPERTIES</b>              |                   |                   |                |
|   | <b>DRY / COND</b> |                   |                |
| Tensile modulus                           | 11000 / 6500      | MPa               | ISO 527–1/–2   |
| Stress at break                           | 185 / 110         | MPa               | ISO 527–1/–2   |
| Strain at break                           | 3.3 / 6.5         | %                 | ISO 527–1/–2   |
| Flexural modulus                          | 10500 / 6200      | MPa               | ISO 178        |
| Flexural strength                         | 290 / 180         | MPa               | ISO 178        |
| Tensile modulus (200°C)                   | 3390              | MPa               | ISO 527–1/–2   |
| Charpy impact strength (+23°C)            | 90 / 100          | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Charpy impact strength (–30°C)            | 75 / 70           | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Charpy notched impact strength (+23°C)    | 12 / 20           | 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 (+23°C)      | 15 / 20           | kJ/m <sup>2</sup> | ISO 180/1A     |
| <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    |

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## Property Data

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| <i>PROPERTIES</i>                            | <i>TYPICAL DATA</i>      | <i>UNIT</i> | <i>TEST METHOD</i>   |
|--|--------------------------|-------------|----------------------|
| Temp. of deflection under load (0.45 MPa)    | 215 / *                  | °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)   | 0.95 / *                 | 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      |
| Oxygen index                                 | 23 / *                   | %           | ISO 4589-1/-2        |
| Glow Wire Flammability Index GWFI            | 650 / -                  | °C          | IEC 60695-2-12       |
| GWFI (Thickness (1) tested)                  | 2 / -                    | mm          | IEC 60695-2-12       |
| <b><i>ELECTRICAL PROPERTIES</i></b>          | <b><i>DRY / COND</i></b> |             |                      |
| Comparative tracking index                   | 475 / -                  | V           | IEC 60112            |
| <b><i>OTHER PROPERTIES</i></b>               | <b><i>DRY / COND</i></b> |             |                      |
| Water absorption                             | 6.5 / *                  | %           | Sim. to ISO 62       |
| Humidity absorption                          | 1.9 / *                  | %           | Sim. to ISO 62       |
| Density                                      | 1410 / -                 | kg/m³       | ISO 1183             |
| <b><i>MATERIAL SPECIFIC PROPERTIES</i></b>   | <b><i>DRY / COND</i></b> |             |                      |
| Viscosity number                             | 140 / *                  | cm³/g       | ISO 307, 1157, 1628  |
| <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           |                      |
| 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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