

# Durethan® ECOBKV30H2.0EF

## PA6—GF30

30% Glass Reinforced, Injection Molding, Heat Stabilized, Recycled Content, Improved flow

### Sustainability

Mass balanced  
Recycled based

| PROPERTIES                                | TYPICAL DATA      | UNIT  | TEST METHOD    |
|-------------------------------------------|-------------------|-------|----------------|
| <b>RHEOLOGICAL PROPERTIES</b>             |                   |       |                |
|                                           | <b>DRY / COND</b> |       |                |
| Molding shrinkage (parallel)              | 0.24 / *          | %     | ISO 294-4      |
| Molding shrinkage (normal)                | 0.69 / *          | %     | ISO 294-4      |
| <b>MECHANICAL PROPERTIES</b>              |                   |       |                |
|                                           | <b>DRY / COND</b> |       |                |
| Tensile modulus                           | 9400 / 5500       | MPa   | ISO 527-1/-2   |
| Stress at break                           | 170 / 100         | MPa   | ISO 527-1/-2   |
| Strain at break                           | 3 / 5.8           | %     | ISO 527-1/-2   |
| Flexural modulus                          | 8800 / 5000       | MPa   | ISO 178        |
| Flexural strength                         | 260 / 160         | MPa   | ISO 178        |
| Tensile modulus (200°C)                   | 2980              | MPa   | ISO 527-1/-2   |
| Charpy impact strength (+23°C)            | 70 / 80           | kJ/m² | ISO 179/1eU    |
| Charpy impact strength (-30°C)            | 55 / 55           | kJ/m² | ISO 179/1eU    |
| Charpy notched impact strength (+23°C)    | 11 / 15           | kJ/m² | ISO 179/1eA    |
| Charpy notched impact strength (-30°C)    | <10 / <10         | kJ/m² | ISO 179/1eA    |
| Izod notched impact strength (+23°C)      | 10 / 15           | kJ/m² | 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) | 205 / *           | °C    | ISO 75-1/-2    |

Property Data

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| PROPERTIES                                   | TYPICAL DATA | UNIT   | TEST METHOD     |
|----------------------------------------------|--------------|--------|-----------------|
| Temp. of deflection under load (0.45 MPa)    | 219 / *      | °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 / *        | E-4/°C | ISO 11359-1/-2  |
| Burning Behav. at 3.0 mm nom. thickn.        | HB / *       | class  | IEC 60695-11-10 |
| Thickness tested                             | 3 / *        | 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 |

| ELECTRICAL PROPERTIES      | DRY / COND |       |             |
|----------------------------|------------|-------|-------------|
| Electric strength          | 33 / 25    | kV/mm | IEC 60243-1 |
| Comparative tracking index | 400 / -    | V     | IEC 60112   |

| OTHER PROPERTIES    | DRY / COND |       |                |
|---------------------|------------|-------|----------------|
| Water absorption    | 7 / *      | %     | Sim. to ISO 62 |
| Humidity absorption | 2.1 / *    | %     | Sim. to ISO 62 |
| Density             | 1350 / -   | 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)   | 250-290   | °C |                      |
| Mold temperature                 | 80-120    | °C |                      |