Property Data

Envalior
Imagine the Future

# Durethan® ECOBKV60H2.0EF

## PA6–GF60

*60% Glass Fiber Reinforced, Injection Molding, Heat Stabilized, High Flow, Recycled Content*

Print Date: 2025–10–11

### Sustainability

Mass balanced
Recycled based

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|---|---|---|
| **RHEOLOGICAL PROPERTIES** | DRY / COND | | |
| Molding shrinkage (parallel) | 0.32 / * | % | ISO 294–4 |
| Molding shrinkage (normal) | 0.4 / * | % | ISO 294–4 |
| **MECHANICAL PROPERTIES** | DRY / COND | | |
| Tensile modulus | 20000 / 12000 | MPa | ISO 527–1/–2 |
| Stress at break | 225 / 145 | MPa | ISO 527–1/–2 |
| Strain at break | 2.4 / 3.5 | % | ISO 527–1/–2 |
| Flexural modulus | 19300 / 12800 | MPa | ISO 178 |
| Flexural strength | 365 / 235 | MPa | ISO 178 |
| Tensile modulus (200°C) | 6270 | MPa | ISO 527–1/–2 |
| Charpy impact strength (+23°C) | 90 / 90 | kJ/m² | ISO 179/1eU |
| Charpy impact strength (–30°C) | 90 / 90 | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 16 / 23 | kJ/m² | ISO 179/1eA |
| Charpy notched impact strength (–30°C) | 16 / 15 | kJ/m² | ISO 179/1eA |
| Izod notched impact strength (+23°C) | 16 / 20 | kJ/m² | ISO 180/1A |
| **THERMAL PROPERTIES** | DRY / COND | | |
| Melting temperature (10°C/min) | 222 / * | °C | ISO 11357–1/–3 |
| Temp. of deflection under load (1.80 MPa) | 213 / * | °C | ISO 75–1/–2 |
| Temp. of deflection under load (0.45 MPa) | 220 / * | °C | ISO 75–1/–2 |

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| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|---|---|---|
| Coeff. of linear therm. expansion (parallel) | 0.12 / * | E–4/°C | ISO 11359–1/–2 |
| Coeff. of linear therm. expansion (normal) | 0.75 / * | E–4/°C | ISO 11359–1/–2 |
| **ELECTRICAL PROPERTIES** | **DRY / COND** | | |
| Relative permittivity (100Hz) | 5.3 / 11.2 | – | IEC 62631–2–1 |
| Relative permittivity (1 MHz) | 4.7 / 5.1 | – | IEC 62631–2–1 |
| Dissipation factor (100 Hz) | 164 / 2150 | E–4 | IEC 62631–2–1 |
| Dissipation factor (1 MHz) | 177 / 651 | E–4 | IEC 62631–2–1 |
| Volume resistivity | 5.8E12 / 8E9 | Ohm*m | IEC 62631–3–1 |
| Electric strength | 33 / 33 | kV/mm | IEC 60243–1 |
| Comparative tracking index | 600 / – | V | IEC 60112 |
| **OTHER PROPERTIES** | **DRY / COND** | | |
| Water absorption | 3.6 / * | % | Sim. to ISO 62 |
| Humidity absorption | 1.3 / * | % | Sim. to ISO 62 |
| Density | 1700 / – | 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 | 0.05–0.15 | % | acc. to Karl Fischer |
| Melt temperature (Tmin – Tmax) | 270–290 | °C | |
| Mold temperature | 80–120 | °C | |