Property Data

Envalior
Imagine the Future

# Durethan® BKV15 DUS008

## PA6–GF15

*15% Glass Reinforced, Injection Molding*

Print Date: 2024–12–03

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|---|---|---|
| **RHEOLOGICAL PROPERTIES** | DRY / COND | | |
| Molding shrinkage (parallel) | 0.35 / * | % | ISO 294–4 |
| Molding shrinkage (normal) | 0.59 / * | % | ISO 294–4 |
| **MECHANICAL PROPERTIES** | DRY / COND | | |
| Tensile modulus | 6500 / 3100 | MPa | ISO 527–1/–2 |
| Stress at break | 130 / 65 | MPa | ISO 527–1/–2 |
| Strain at break | 3 / 12 | % | ISO 527–1/–2 |
| Flexural modulus | 5500 / 3100 | MPa | ISO 178 |
| Flexural strength | 205 / 110 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 50 / 100 | kJ/m² | ISO 179/1eU |
| Charpy impact strength (–30°C) | 45 / 45 | kJ/m² | ISO 179/1eU |
| Izod notched impact strength (+23°C) | <10 / 10 | kJ/m² | ISO 180/1A |
| **THERMAL PROPERTIES** | DRY / COND | | |
| Melting temperature (10°C/min) | 220 / * | °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 / * | 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 |
| Burning Behav. at 3.0 mm nom. thickn. | HB / * | class | IEC 60695–11–10 |
| Thickness tested | 3 / * | mm | IEC 60695–11–10 |

*Property Data*

# *Durethan® BKV15 DUS008*

Print Date: 2024–12–03

| *PROPERTIES* | *TYPICAL DATA* | *UNIT* | *TEST METHOD* |
|---|---|---|---|
| Burning Behav. at 0.75 mm nom. thickn. | HB / * | class | IEC 60695–11–10 |
| Thickness tested | 0.75 / * | mm | IEC 60695–11–10 |

| *OTHER PROPERTIES* | *DRY / COND* | | |
|---|---|---|---|
| Density | 1230 / – | kg/m³ | ISO 1183 |

| *PROCESSING RECOMMENDATIONS* | *VALUE* | |
|---|---|---|
| Drying temperature dry air dryer | 80 | °C |
| Drying time dry air dryer | 2–6 | h |
| Melt temperature (Tmin – Tmax) | 260–290 | °C |
| Mold temperature | 80–100 | °C |