Property Data

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# Durethan® BKV33 DUS800

Akulon® K224-G6U

## PA6-GF33

33% Glass Fiber Reinforced

Print Date: 2026-04-09

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|---|---|---|
| **RHEOLOGICAL PROPERTIES** | DRY / COND | | |
| Molding shrinkage (parallel) | 0.4 / * | % | ISO 294-4 |
| Molding shrinkage (normal) | 0.9 / * | % | ISO 294-4 |
| **MECHANICAL PROPERTIES** | DRY / COND | | |
| Tensile modulus | 10500 / 6600 | MPa | ISO 527-1/-2 |
| Stress at break | 185 / 110 | MPa | ISO 527-1/-2 |
| Strain at break | 3.5 / 5 | % | ISO 527-1/-2 |
| Flexural modulus | 9500 / - | MPa | ISO 178 |
| Flexural strength | 280 / - | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 95 / 110 | kJ/m² | ISO 179/1eU |
| Charpy impact strength (-30°C) | 75 / 70 | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 13 / 30 | kJ/m² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | 12 / 11 | kJ/m² | ISO 179/1eA |
| Izod notched impact strength (+23°C) | 13 / - | 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) | 210 / * | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 220 / * | °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) | 0.7 / * | E-4/°C | ISO 11359-1/-2 |
| **ELECTRICAL PROPERTIES** | DRY / COND | | |

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*Akulon® K224-G6U*

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| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|---|---|---|
| Relative permittivity (100Hz) | 3.5 / 20 | - | IEC 62631-2-1 |
| Relative permittivity (1 MHz) | 3.3 / 5 | - | IEC 62631-2-1 |
| Dissipation factor (100 Hz) | 50 / 3000 | E-4 | IEC 62631-2-1 |
| Dissipation factor (1 MHz) | 150 / 1200 | E-4 | IEC 62631-2-1 |
| Volume resistivity | 1E13 / 1E11 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity | - / 1E14 | Ohm | IEC 62631-3-2 |
| Electric strength | 30 / 25 | kV/mm | IEC 60243-1 |

| OTHER PROPERTIES | DRY / COND | | |
|---|---|---|---|
| Water absorption | 6.3 / * | % | Sim. to ISO 62 |
| Humidity absorption | 1.9 / * | % | Sim. to ISO 62 |
| Density | 1390 / * | kg/m³ | ISO 1183 |

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