

Durethan® AKV230H2.0

PA66–I–GF30

30% Glass Reinforced, Injection Molding, Heat Stabilized, Improved Impact

Print Date: 2024–08–24

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|-------------------|-------------------|----------------|
| RHEOLOGICAL PROPERTIES | | | |
| | DRY / COND | | |
| Molding shrinkage (parallel) | 0.5 / * | % | ISO 294–4 |
| Molding shrinkage (normal) | 0.85 / * | % | ISO 294–4 |
| MECHANICAL PROPERTIES | | | |
| | DRY / COND | | |
| Tensile modulus | 8000 / 5100 | MPa | ISO 527–1/–2 |
| Stress at break | 130 / 85 | MPa | ISO 527–1/–2 |
| Strain at break | 4 / 6.5 | % | ISO 527–1/–2 |
| Flexural modulus | 7000 / 4600 | MPa | ISO 178 |
| Flexural strength | 200 / 135 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 75 / 80 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (–30°C) | 85 / 85 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 20 / 28 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (–30°C) | 15 / 15 | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength (+23°C) | 20 / 28 | kJ/m ² | ISO 180/1A |
| THERMAL PROPERTIES | | | |
| | DRY / COND | | |
| Melting temperature (10°C/min) | 262 / * | °C | ISO 11357–1/–3 |
| OTHER PROPERTIES | | | |
| | DRY / COND | | |
| Density | 1290 / – | kg/m ³ | ISO 1183 |
| PROCESSING RECOMMENDATIONS | | | |
| | VALUE | | |
| Drying temperature dry air dryer | 80 | °C | |

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Property Data

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|--------------------------------|---------------------|-------------|----------------------|
| Drying time dry air dryer | 2-6 | h | |
| Residual moisture content | 0.03-0.12 | % | acc. to Karl Fischer |
| Melt temperature (Tmin – Tmax) | 280-300 | °C | |
| Mold temperature | 80-120 | °C | |

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