

Akulon[®] S223–HG0

PA66–GF50

50% Glass Reinforced, Heat Stabilized

Print Date: 2024–09–17

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|-------------------|-------------------|----------------|
| RHEOLOGICAL PROPERTIES | | | |
| | DRY / COND | | |
| Molding shrinkage (parallel) | 0.4 / * | % | ISO 294–4 |
| Molding shrinkage (normal) | 1.2 / * | % | ISO 294–4 |
| MECHANICAL PROPERTIES | | | |
| | DRY / COND | | |
| Tensile modulus | 16000 / 11500 | MPa | ISO 527–1/–2 |
| Stress at break | 240 / 170 | MPa | ISO 527–1/–2 |
| Strain at break | 2.7 / 3.9 | % | ISO 527–1/–2 |
| Flexural modulus | 15500 / 11500 | MPa | ISO 178 |
| Flexural strength | 350 / 275 | MPa | ISO 178 |
| Tensile modulus (200°C) | 5200 | MPa | ISO 527–1/–2 |
| Stress at break (200°C) | 75 | MPa | ISO 527–1/–2 |
| Strain at break (200°C) | 5.9 | % | ISO 527–1/–2 |
| Charpy impact strength (+23°C) | 90 / 94 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (–30°C) | 97 / 101 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 16 / 21 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (–30°C) | 14 / 14 | kJ/m ² | ISO 179/1eA |
| THERMAL PROPERTIES | | | |
| | DRY / COND | | |
| Melting temperature (10°C/min) | 260 / * | °C | ISO 11357–1/–3 |
| Temp. of deflection under load (1.80 MPa) | 253 / * | °C | ISO 75–1/–2 |
| Temp. of deflection under load (0.45 MPa) | 260 / * | °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) | 0.6 / * | E–4/°C | ISO 11359–1/–2 |

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Property Data

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|-------------------------|---------------------|-------------------|--------------------|
| OTHER PROPERTIES | DRY / COND | | |
| Water absorption | 4.2 / * | % | Sim. to ISO 62 |
| Humidity absorption | 1.2 / * | % | Sim. to ISO 62 |
| Density | 1570 / – | kg/m ³ | ISO 1183 |

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