Property Data

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# Novamid® 1013G15 1 NA

## PA6–GF15

*15% Glass Reinforced, Injection Molding*

Print Date: 2024–03–27

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|---|---|---|
| **RHEOLOGICAL PROPERTIES** | DRY / COND | | |
| Molding shrinkage (parallel) | 0.4 / * | % | ISO 294–4 |
| Molding shrinkage (normal) | 1.3 / * | % | ISO 294–4 |
| **MECHANICAL PROPERTIES** | DRY / COND | | |
| Tensile modulus | 5800 / 3300 | MPa | ISO 527–1/–2 |
| Stress at break | 130 / 75 | MPa | ISO 527–1/–2 |
| Strain at break | 2.7 / 8.7 | % | ISO 527–1/–2 |
| Flexural modulus | 5400 / 3000 | MPa | ISO 178 |
| Flexural strength | 200 / 120 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 39 / 105 | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 6 / 14 | kJ/m² | ISO 179/1eA |
| **THERMAL PROPERTIES** | DRY / COND | | |
| Melting temperature (10°C/min) | 220 / * | °C | ISO 11357–1/–3 |
| Temp. of deflection under load (1.80 MPa) | 194 / * | °C | ISO 75–1/–2 |
| Temp. of deflection under load (0.45 MPa) | 216 / * | °C | ISO 75–1/–2 |
| **ELECTRICAL PROPERTIES** | DRY / COND | | |
| Relative permittivity (100Hz) | 4 / – | – | IEC 62631–2–1 |
| Relative permittivity (1 MHz) | 4 / – | – | IEC 62631–2–1 |
| Dissipation factor (100 Hz) | 130 / – | E–4 | IEC 62631–2–1 |
| Dissipation factor (1 MHz) | 230 / – | E–4 | IEC 62631–2–1 |
| Volume resistivity | 6E12 / – | Ohm*m | IEC 62631–3–1 |

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| *PROPERTIES* | *TYPICAL DATA* | *UNIT* | *TEST METHOD* |
|---|---|---|---|
| Surface resistivity | – / 8E13 | Ohm | IEC 62631–3–2 |
| Electric strength | 27 / – | kV/mm | IEC 60243–1 |
| Comparative tracking index | 400 / – | V | IEC 60112 |

| *OTHER PROPERTIES* | *DRY / COND* | | |
|---|---|---|---|
| Humidity absorption | 2.4 / * | % | Sim. to ISO 62 |
| Density | 1230 / – | kg/m³ | ISO 1183 |