

Novamid[®] 1010GN2-30 NAT/BK37

PA6-GF30 FR(17)

30% Glass Reinforced, Flame Retardant

Print Date: 2024-03-27

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|-------------------|-------------------|----------------|
| RHEOLOGICAL PROPERTIES | | | |
| | DRY / COND | | |
| Molding shrinkage (parallel) | 0.2 / * | % | ISO 294-4 |
| Molding shrinkage (normal) | 0.9 / * | % | ISO 294-4 |
| MECHANICAL PROPERTIES | | | |
| | DRY / COND | | |
| Tensile modulus | 12100 / 8700 | MPa | ISO 527-1/-2 |
| Stress at break | 160 / 130 | MPa | ISO 527-1/-2 |
| Strain at break | 1.7 / 2.5 | % | ISO 527-1/-2 |
| Flexural modulus | 11500 / 8600 | MPa | ISO 178 |
| Flexural strength | 260 / 210 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 54 / 64 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 13 / 14 | kJ/m ² | 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) | 213 / * | °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) | 0.6 / * | E-4/°C | ISO 11359-1/-2 |
| Glow Wire Flammability Index GWFI | 960 / - | °C | IEC 60695-2-12 |
| GWFI (Thickness (1) tested) | 3 / - | mm | IEC 60695-2-12 |
| ELECTRICAL PROPERTIES | | | |
| | DRY / COND | | |
| Relative permittivity (100Hz) | 5 / - | - | IEC 62631-2-1 |

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Property Data

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|--------------------------------|--------------------------|-------------------|--------------------|
| Relative permittivity (1 MHz) | 4 / – | – | IEC 62631–2–1 |
| Dissipation factor (100 Hz) | 130 / – | E–4 | IEC 62631–2–1 |
| Dissipation factor (1 MHz) | 190 / – | E–4 | IEC 62631–2–1 |
| Volume resistivity | 6E12 / – | Ohm*m | IEC 62631–3–1 |
| Surface resistivity | – / 6E13 | Ohm | IEC 62631–3–2 |
| Electric strength | 23 / – | kV/mm | IEC 60243–1 |
| Comparative tracking index | 225 / – | V | IEC 60112 |
| <i>OTHER PROPERTIES</i> | <i>DRY / COND</i> | | |
| Humidity absorption | 1.4 / * | % | Sim. to ISO 62 |
| Density | 1660 / – | kg/m ³ | ISO 1183 |

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