

# Novamid® 1013G15 1 NA

## PA6-GF15

15% Glass Reinforced, Injection Molding

Print Date: 2018-12-13

| Properties                                | Typical Data      | Unit              | Test Method     |
|-------------------------------------------|-------------------|-------------------|-----------------|
| <b>Rheological properties</b>             | <b>dry / cond</b> |                   |                 |
| Molding shrinkage (parallel)              | 0.4 / *           | %                 | ISO 294-4       |
| Molding shrinkage (normal)                | 1.3 / *           | %                 | ISO 294-4       |
| <b>Mechanical properties</b>              | <b>dry / cond</b> |                   |                 |
| 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/m <sup>2</sup> | ISO 179/1eU     |
| Charpy notched impact strength (+23°C)    | 6 / 14            | kJ/m <sup>2</sup> | ISO 179/1eA     |
| <b>Thermal properties</b>                 | <b>dry / cond</b> |                   |                 |
| 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     |
| Burning Behav. at thickness h             | HB / *            | class             | IEC 60695-11-10 |
| Thickness tested                          | 0.8 / *           | mm                | IEC 60695-11-10 |
| <b>Electrical properties</b>              | <b>dry / cond</b> |                   |                 |
| Relative permittivity (100Hz)             | 4 / -             | -                 | IEC 60250       |
| Relative permittivity (1 MHz)             | 4 / -             | -                 | IEC 60250       |
| Dissipation factor (100 Hz)               | 130 / -           | E-4               | IEC 60250       |

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| Dissipation factor (1 MHz) | 230 / -      | E-4               | IEC 60250      |
| Volume resistivity         | 6E12 / -     | Ohm*m             | IEC 60093      |
| Surface resistivity        | * / 8E13     | Ohm               | IEC 60093      |
| Electric strength          | 27 / -       | kV/mm             | IEC 60243-1    |
| Comparative tracking index | 400 / -      | V                 | IEC 60112      |
| <b>Other properties</b>    |              |                   |                |
|                            | dry / cond   |                   |                |
| Humidity absorption        | 2.4 / *      | %                 | Sim. to ISO 62 |
| Density                    | 1230 / -     | kg/m <sup>3</sup> | ISO 1183       |