

Novamid® 1010C2

PA6

Easy Molding Grade

Print Date: 2019-07-03

| Properties | Typical Data | Unit | Test Method |
|--|--------------|-------------------|-------------------|
| Rheological properties | | | |
| | dry / cond | | |
| Molding shrinkage [parallel] | 1.2 / * | % | Sim. to ISO 294-4 |
| Molding shrinkage [normal] | 1.3 / * | % | Sim. to ISO 294-4 |
| Mechanical properties | | | |
| | dry / cond | | |
| Tensile modulus | 3400 / 1700 | MPa | ISO 527-1/-2 |
| Yield stress | 87 / 54 | MPa | ISO 527-1/-2 |
| Yield strain | 4.2 / 21 | % | ISO 527-1/-2 |
| Nominal strain at break | 18 / >50 | % | ISO 527-1/-2 |
| Flexural modulus | 2800 / 1000 | MPa | ISO 178 |
| Flexural strength | 102 / 50 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | N / N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 4.2 / 26 | 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) | 61 / * | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 150 / * | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion (parallel) | 0.7 / * | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 0.8 / * | E-4/°C | ISO 11359-1/-2 |
| Burning Behav. at thickness h | V-2 / * | class | IEC 60695-11-10 |
| Thickness tested | 0.81 / * | mm | IEC 60695-11-10 |
| Electrical properties | | | |
| | dry / cond | | |

Property Data

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| Properties | Typical Data | Unit | Test Method |
|-------------------------------------|--------------|--------------------|---------------------|
| Relative permittivity (100Hz) | 4 / - | - | IEC 60250 |
| Relative permittivity (1 MHz) | 4 / - | - | IEC 60250 |
| Dissipation factor (100 Hz) | 110 / - | E-4 | IEC 60250 |
| Dissipation factor (1 MHz) | 230 / - | E-4 | IEC 60250 |
| Volume resistivity | >1E13 / - | Ohm*m | IEC 60093 |
| Surface resistivity | - / 2E14 | Ohm | IEC 60093 |
| Electric strength | 27 / - | kV/mm | IEC 60243-1 |
| Comparative tracking index | 600 / - | V | IEC 60112 |
| Other properties | | dry / cond | |
| Humidity absorption | 2.8 / * | % | Sim. to ISO 62 |
| Density | 1130 / - | kg/m ³ | ISO 1183 |
| Material specific properties | | dry / cond | |
| Viscosity number | 118 / * | cm ³ /g | ISO 307, 1157, 1628 |