

# Novamid<sup>®</sup> 1020

## PA6

Extrusion, Food Contact Quality

| PROPERTIES                                | TYPICAL DATA      | UNIT  | TEST METHOD         |
|-------------------------------------------|-------------------|-------|---------------------|
| <b>MECHANICAL PROPERTIES</b>              |                   |       |                     |
|                                           | <b>DRY / COND</b> |       |                     |
| Tensile modulus                           | 2700 / –          | MPa   | ISO 527-1/-2        |
| Yield stress                              | 81 / –            | MPa   | ISO 527-1/-2        |
| Yield strain                              | 4.2 / –           | %     | ISO 527-1/-2        |
| Flexural modulus                          | 2600 / –          | MPa   | ISO 178             |
| Flexural strength                         | 107 / –           | MPa   | ISO 178             |
| Charpy impact strength (+23°C)            | N / –             | kJ/m² | ISO 179/1eU         |
| Charpy notched impact strength (+23°C)    | 4.5 / –           | kJ/m² | 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) | 62 / *            | °C    | ISO 75-1/-2         |
| <b>OTHER PROPERTIES</b>                   |                   |       |                     |
|                                           | <b>DRY / COND</b> |       |                     |
| Humidity absorption                       | 2.8 / *           | %     | Sim. to ISO 62      |
| Density                                   | 1130 / –          | kg/m³ | ISO 1183            |
| <b>MATERIAL SPECIFIC PROPERTIES</b>       |                   |       |                     |
|                                           | <b>DRY / COND</b> |       |                     |
| Viscosity number                          | 183 / *           | cm³/g | ISO 307, 1157, 1628 |

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Viscosity–shear rate

