

# Novamid® 1020C

## PA6

Extrusion, Injection Molding, Lubricated, Nucleated

| Properties                                | Typical Data | Unit              | Test Method    |
|-------------------------------------------|--------------|-------------------|----------------|
| <b>Mechanical properties</b>              |              |                   |                |
|                                           | dry / cond   |                   |                |
| Tensile modulus                           | 2900 / -     | MPa               | ISO 527-1/-2   |
| Yield stress                              | 80 / -       | MPa               | ISO 527-1/-2   |
| Yield strain                              | 4.2 / -      | %                 | ISO 527-1/-2   |
| Nominal strain at break                   | >50 / -      | %                 | ISO 527-1/-2   |
| Flexural modulus                          | 2600 / -     | MPa               | ISO 178        |
| Flexural strength                         | 108 / -      | MPa               | ISO 178        |
| Charpy notched impact strength (+23°C)    | 2.7 / -      | kJ/m <sup>2</sup> | ISO 179/1eA    |
| <b>Thermal properties</b>                 |              |                   |                |
|                                           | dry / cond   |                   |                |
| Melting temperature (10°C/min)            | 220 / *      | °C                | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 60 / *       | °C                | ISO 75-1/-2    |
| Temp. of deflection under load (0.45 MPa) | 154 / *      | °C                | ISO 75-1/-2    |
| <b>Other properties</b>                   |              |                   |                |
|                                           | dry / cond   |                   |                |
| Humidity absorption                       | 2.8 / *      | %                 | Sim. to ISO 62 |
| Density                                   | 1130 / -     | kg/m <sup>3</sup> | ISO 1183       |



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Viscosity-shear rate

