

### DOMAMID® 66SN

Polyamide 66, general purpose, for injection moulding.

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| TYPICAL PROPERTIES                    | CONDITION            | STANDARD       | UNIT                 | VALUE            |
|---------------------------------------|----------------------|----------------|----------------------|------------------|
| <b>PHYSICAL</b>                       |                      |                |                      |                  |
| Density                               |                      | ISO 1183       | [g/cm <sup>3</sup> ] | 1,13             |
| Mold shrinkage parallel               | 72 hrs, 23°C, 50% RH | ISO 2577       | [%]                  | 1,4 - 1,6        |
| <b>MECHANICAL</b>                     |                      |                |                      |                  |
| Tensile modulus                       | 1 mm/min             | ISO 527        | [MPa]                | 3200             |
| Tensile strain at break               | 50 mm/min            | ISO 527        | [%]                  | 50               |
| Tensile stress at yield               | 50 mm/min            | ISO 527        | [MPa]                | 85               |
| Flexural modulus                      | 2 mm/min             | ISO 178        | [MPa]                | 2800             |
| Izod impact notched                   | +23 °C               | ISO 180/1A     | [kJ/m <sup>2</sup> ] | 5                |
| Hardness Rockwell                     |                      | ISO 2039/2     | [ScaleR]             | 121              |
| <b>THERMAL</b>                        |                      |                |                      |                  |
| Melting point                         | DSC                  | ISO 11357-1    | [°C]                 | 260 ± 2          |
| Heat Deflection Temperature (HDT-B)   | 0,45 MPa             | ISO 75         | [°C]                 | 210              |
| Heat Deflection Temperature (HDT-A)   | 1,80 MPa             | ISO 75         | [°C]                 | 65               |
| VICAT softening temperature           | 50°C/h - 50N         | ISO 306        | [°C]                 | 250              |
| <b>ELECTRICAL</b>                     |                      |                |                      |                  |
| Volume resistivity                    |                      | IEC 93         | [Ω·cm]               | 10 <sup>15</sup> |
| Surface resistivity                   |                      | IEC 93         | [Ω]                  | 10 <sup>13</sup> |
| Comparative Tracking Index (CTI)      | Solution A           | IEC 112        | [V]                  | 600              |
| <b>BURNING BEHAVIOUR</b>              |                      |                |                      |                  |
| Flammability                          | 0,8 mm               | UL 94          | [Class]              | V2               |
| Glow Wire Flammability Index (GWFI)   | 3 mm                 | IEC 60695-2-12 | [°C]                 | 750              |
| Glow Wire Ignition Temperature (GWIT) | 1 - 3 mm             | IEC 60695-2-13 | [°C]                 | 650              |
| Burning rate (FMVSS)                  |                      | FMVSS 302      | [mm/min]             | < 100            |

Test run at 23°C if not differently specified, DAM state (dry as moulded), valid for natural colored products

#### PROCESSING CONDITIONS:

|                               |                |
|-------------------------------|----------------|
| Drying temperature/time       | : 75-85°C/4-6h |
| Recommended melt temperature  | : 260-285 °C   |
| Recommended mould temperature | : 40-80 °C     |

These parameters are typical of the product but should be related to the type of machinery used and to the type of moulded part.

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