

### DOMAMID® 66G40GR900

Polyamide 66, 40% glass fibre, for injection moulding.

preliminary datasheet

22.03.2006

| TYPICAL PROPERTIES                  | CONDITION    | STANDARD    | UNIT                 | VALUE            |
|-------------------------------------|--------------|-------------|----------------------|------------------|
| <b>PHYSICAL</b>                     |              |             |                      |                  |
| Density                             |              | ISO 1183    | [g/cm <sup>3</sup> ] | 1,47             |
| <b>MECHANICAL</b>                   |              |             |                      |                  |
| Tensile modulus                     | 1 mm/min     | ISO 527     | [MPa]                | 12000            |
| Tensile stress at break             | 5 mm/min     | ISO 527     | [MPa]                | 160              |
| Tensile strain at break             | 5 mm/min     | ISO 527     | [%]                  | 2                |
| Izod impact notched                 | +23 °C       | ISO 180/1A  | [kJ/m <sup>2</sup> ] | 9                |
| <b>THERMAL</b>                      |              |             |                      |                  |
| Melting point                       | DSC          | ISO 11357-1 | [°C]                 | 260 ± 2          |
| Heat Deflection Temperature (HDT-A) | 1,80 MPa     | ISO 75      | [°C]                 | 250              |
| VICAT softening temperature         | 50°C/h - 50N | ISO 306     | [°C]                 | 255              |
| <b>ELECTRICAL</b>                   |              |             |                      |                  |
| Volume resistivity                  |              | IEC 93      | [Ω·cm]               | 10 <sup>15</sup> |
| Surface resistivity                 |              | IEC 93      | [Ω]                  | 10 <sup>13</sup> |
| <b>BURNING BEHAVIOUR</b>            |              |             |                      |                  |
| Flammability                        | 0,8 mm       | UL 94       | [Class]              | HB               |
| 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 : 80-120 °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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