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|-------------|--------------------|
| Document    | ISO Datasheet      |
| Description | POM                |
| Grade       | DAFNELAN GR9 T02   |
| Code        |                    |
| Application | Injection moulding |

PTFE modified polyoxymethylene copolymer. Lubricated.

| Properties                               | Method      | Unit              | Value   |
|--|-------------|-------------------|---------|
| <b>Physical</b>                          |             |                   |         |
| Melt Flow Rate (190°C - 2,16 Kg)         | ISO 1133    | g/10'             | 9       |
| Density at 23°C                          | ISO 1183    | g/cm <sup>3</sup> | 1,45    |
| Mould Shrinkage (%)                      | INTERNAL    | %                 | 2,0-2,2 |
| <b>Thermal</b>                           |             |                   |         |
| Vicat B50                                | ISO 306     | °C                | 145     |
| HDT, A (1.80 MPa)                        | ISO 75/Af   | °C                | 85      |
| HDT, B (0.45 MPa)                        | ISO 75/Af   | °C                | 150     |
| <b>Mechanical at 23 °C</b>               |             |                   |         |
| Flexural Modulus (23°C - 2 mm/min)       | ISO 178     | MPa               | 2200    |
| Flexural strenght (23°C - 2 mm/min)      | ISO 178     | MPa               | 75      |
| Tensile stress at break (23°C-50 mm/min) | ISO 527-2   | MPa               | 50      |
| Tensile elong. at break (23°C-50 mm/min) | ISO 527-2   | %                 | >10     |
| Izod notched impact strength (23°C) ISO  | ISO 180/1A  | KJ/m <sup>2</sup> | 5,0     |
| Charpy notched impact strength (23°C)    | ISO 179/1eA | KJ/m <sup>2</sup> | 5,0     |
| Charpy unnotched impact strength (23°C)  | ISO 179/1eU | KJ/m <sup>2</sup> | 40      |
| <b>Flammability</b>                      |             |                   |         |
| Flammability class (1,6 mm)              | UL94        |                   | HB      |
| <b>Processing Conditions</b>             |             |                   |         |
| Melt Temperature Range                   | ISO 294     | °C                | 180-200 |
| Mold Temperature Range                   | ISO 294     | °C                | 70-90   |
| Injection Velocity                       | ISO 294     |                   | MEDIUM  |
| Drying Temperature                       |             | °C                | 80      |
| Drying Time                              |             | Hour              | 3       |

## Regulations compliance

RoHS compliance status: **COMPLIANT**

EN71:

UL listed file n°:

Water contact approvals.

Food contact status:

§ Moulding shrinkage is not an intrinsic property of plastics. It also depends on moulding parameters. The values reported have been calculated in the direction parallel to the flow in a 4.0 x 10.0 x 170 mm sample.

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