# MAJORIS DG400

Polypropylene

AD majoris

## Message:

DG400 is a 40% chemically coupled glass fibre reinforced polypropylene compound intended for injection moulding.
The product is available in natural, but other colours can be provided on request.
DG400 has been developed especially for the automotive under the bonnet applications.
DG400 has very high stiffness, high impact strength, good dimensional stability and good creep resistance also at high temperatures.
APPLICATIONS
Product requiring high service temperature and extremely high mechanical strength, such as:
Air filter cases
Lamp housings
Timing belt covers
Fans and shrouds
Technical components

| General Information | | | |
|---|---|---|---|
| Filler / Reinforcement | Glass fiber reinforced material, 40% filler by weight | | |
| Features | Good dimensional stability<br>Rigidity, high<br>High strength<br>Chemical coupling<br>Impact resistance, high<br>Recyclable materials<br>Good creep resistance | | |
| Uses | Parts under the hood of a car<br>Shell | | |
| Appearance | Available colors<br>Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 1.20 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 6.0 | g/10 min | ISO 1133 |
| Molding Shrinkage | 0.20 - 0.50 | % | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress (Yield) | 95.0 | MPa | ISO 527-2/50 |
| Tensile Strain (Yield) | 2.0 | % | ISO 527-2/50 |
| Flexural Modulus [1] | 6300 | MPa | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Charpy Notched Impact Strength (23°C) | 14 | kJ/m² | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C) | 61 | kJ/m² | ISO 179/1eU |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature | | | |
| 0.45 MPa, not annealed | 160 | °C | ISO 75-2/B |
| 1.8 MPa, not annealed | 149 | °C | ISO 75-2/A |
| Vicat Softening Temperature | | | |
| -- | 165 | °C | ISO 306/A |
| -- | 137 | °C | ISO 306/B |
| Flammability | Nominal Value | | Test Method |
| Flame Rating | HB | | UL 94 |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | 230 - 270 | °C | |
| Mold Temperature | 30.0 - 70.0 | °C | |
| Injection Rate | Moderate | | |
| Injection instructions | | | |
| Holding pressure: 50 to 70% of the injection pressure | | | |
| NOTE | | | |
| 1. | 2.0 mm/min | | |



## Recommended distributors for this material

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WECHAT