# MAJORIS G357

Polypropylene

AD majoris

## Message:

MAJORIS G357 is a special long glass fibre reinforced polypropylene grade, for injection moulding and extrusion. The long glass fibres, chemically coupled to the polypropylene matrix, are providing with outstanding mechanical properties. This product is UV stabilised.
MAJORIS G357 is available in natural and other colours can be provided on request.
APPLICATIONS
MAJORIS G357 is intended for injection moulding of highly demanding technical applications.
The excellent properties of MAJORIS G357 make it suitable for:
Automotive parts for interior and exterior applications
MAJORIS G357 can substitute other engineering plastics or metal alloys in many applications.

| General Information | |
|---|---|
| Filler / Reinforcement | Long glass fiber |
| Additive | heat stabilizer<br>UV stabilizer |
| Features | Chemical coupling<br>Good UV resistance<br>Recyclable materials<br>Heat resistance, high<br>Thermal Stability |
| Uses | Metal substitution<br>Car interior parts<br>Automotive exterior parts |
| Appearance | Available colors<br>Natural color |
| Forms | Particle |
| Processing Method | Extrusion<br>Injection molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.18 | g/cm³ | ISO 1183 |
| Molding Shrinkage | 0.45 | % | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 8030 | MPa | ISO 527-2/1 |
| Tensile Stress (Break) | 127 | MPa | ISO 527-2/50 |
| Tensile Strain (Break) | 2.2 | % | ISO 527-2/50 |

| | | | |
|---|---|---|---|
| Flexural Modulus | 7100 | MPa | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -20°C | 27 | kJ/m² | ISO 179/1eA |
| 23°C | 24 | kJ/m² | ISO 179/1eA |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 161 | °C | ISO 75-2/B |
| Vicat Softening Temperature | 145 | °C | ISO 306/B |
| CLTE - Flow | | | ASTM D696 |
| -30°C | 4.8E-5 | cm/cm/°C | ASTM D696 |
| 23°C | 3.6E-5 | cm/cm/°C | ASTM D696 |
| **Injection** | **Nominal Value** | **Unit** | |
| Rear Temperature | 230 - 250 | °C | |
| Processing (Melt) Temp | 250 - 280 | °C | |
| Mold Temperature | 80.0 - 100 | °C | |
| Injection Pressure | 30.0 - 60.0 | MPa | |
| Injection Rate | Slow | | |
| Screw Speed | 30 - 150 | rpm | |
| **Injection instructions** | | | |

Holding pressure: 50 to 70% of the injection pressureBack pressure: as low as possible, 0 to 10%Holding time: as long as practical



## Recommended distributors for this material

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