# MAJORIS CG408X

Polypropylene

AD majoris

## Message:

MAJORIS CG408X is a high performance reinforced polypropylene compound intended for injection moulding.
The product is available in natural, but other colours can be provided on request.
MAJORIS CG408X has been developed especially for demanding applications in various engineering sectors.
MAJORIS CG408X has high rigidity and impact strength, good dimensional stability, very good stiffness and good creep resistancy also at high temperatures.
APPLICATIONS
Product requiring very high overall mechanical performance such as:
Electrical tool and appliance components
Under the bonnet parts
Miscellaneous technical items

| General Information | | | |
|---|---|---|---|
| Filler / Reinforcement | Glass Fiber,40% Filler by Weight | | |
| Features | Good Creep Resistance<br>Good Dimensional Stability<br>Good Stiffness<br>High Impact Resistance<br>High Rigidity<br>Recyclable Material | | |
| Uses | Appliance Components<br>Automotive Under the Hood<br>Electrical/Electronic Applications<br>Power/Other Tools | | |
| Appearance | Colors Available<br>Natural Color | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 1.21 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 4.0 | g/10 min | ISO 1133 |
| Molding Shrinkage | | | Internal Method |
| Across Flow : 2.00 mm | 0.50 to 0.80 | % | |
| Flow : 2.00 mm | 0.10 to 0.20 | % | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 10600 | MPa | ISO 527-2/1 |

| | | | |
|---|---|---|---|
| Tensile Stress (Yield) | 126 | MPa | ISO 527-2/50 |
| Tensile Strain (Break) | 2.5 | % | ISO 527-2/50 |
| Flexural Modulus [1] | 9230 | MPa | ISO 178 |
| Flexural Stress | 207 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (23°C) | 15 | $kJ/m^2$ | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C) | 64 | $kJ/m^2$ | ISO 179/1eU |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature | | | |
| 0.45 MPa, Unannealed | 170 | °C | ISO 75-2/B |
| 1.8 MPa, Unannealed | 163 | °C | ISO 75-2/A |
| Flammability | Nominal Value | | Test Method |
| Flame Rating | HB | | UL 94 |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | 230 to 270 | °C | |
| Mold Temperature | 30.0 to 60.0 | °C | |
| Injection Rate | Moderate | | |
| Holding Pressure | 30.0 to 60.0 | MPa | |
| NOTE | | | |
| 1. | 2.0 mm/min | | |



## Recommended distributors for this material

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