# MAJORIS BG304

Polypropylene

AD majoris

## Message:

BG304 is a 30% 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.
BG304 has been developed especially for demanding applications in various engineering sectors.
BG304 has very high rigidity and impact strength, good dimensional stability and good creep resistance also at high temperatures.
APPLICATIONS
Product requiring very high overall mechanical performance such as:
Domestic appliance components like washing machine tubs.
Electrical tool and appliance components
Miscellaneous automotive technical items

| General Information | | | |
|---|---|---|---|
| Filler / Reinforcement | Glass fiber reinforced material, 30% filler by weight | | |
| Features | Good dimensional stability<br>Rigidity, high<br>Chemical coupling<br>Impact resistance, high<br>Recyclable materials<br>Good creep resistance<br>Heat resistance, high<br>Detergent resistance | | |
| Uses | Electrical/Electronic Applications<br>Power/other tools<br>Home appliance components<br>Application in Automobile Field | | |
| Appearance | Available colors<br>Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 1.13 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 2.0 | g/10 min | ISO 1133 |
| Molding Shrinkage [1] | | | |
| Vertical flow direction | 1.1 | % | |
| Flow direction | 0.16 | % | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Tensile Modulus | 7200 | MPa | ISO 527-2/1 |
| Tensile Stress (Yield) | 104 | MPa | ISO 527-2/50 |
| Tensile Strain (Yield) | 3.4 | % | ISO 527-2/50 |
| Flexural Modulus [2] | 5700 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (23°C) | 12 | $kJ/m^2$ | ISO 179/1eA |
| Charpy Unnotched Impact Strength (23°C) | 59 | $kJ/m^2$ | ISO 179/1eU |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature | | | |
| 0.45 MPa, not annealed | 159 | °C | ISO 75-2/B |
| 1.8 MPa, not annealed | 143 | °C | ISO 75-2/A |
| Vicat Softening Temperature | | | |
| -- | 164 | °C | ISO 306/A |
| -- | 135 | °C | ISO 306/B |
| Flammability | Nominal Value | | Test Method |
| Flame Rating | HB | | UL 94 |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | 210 - 260 | °C | |
| Mold Temperature | 30.0 - 60.0 | °C | |
| Injection Rate | Slow-Moderate | | |
| Injection instructions | | | |
| Holding pressure: 50 to 70% of the injection pressure | | | |
| NOTE | | | |
| 1. | 150x80x2 mm | | |
| 2. | 2.0 mm/min | | |



Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT