# Borealis PP BC245MO

Polypropylene Copolymer

Borealis AG

## Message:

BC245MO is a very stiff high impact polypropylene heterophasic copolymer intended for injection moulding. This grade is characterized by combination of good stiffness, good creep resistance and very high impact strength even at low temperatures. This grade features high impact strength, high thermal stability and very good processability. As all polypropylenes, this grade shows excellent stress-cracking and chemical resistances.
This grade is mildly nucleated to maximize the mechanical stiffness. The additive formulation provides a smooth demoulding. Nucleation, good flow properties and high stiffness create a high potential for cycle time reduction. Its very good organoleptic properties allows this grade to be used with any masterbatch without discoloring problems.

| General Information | | | |
|---|---|---|---|
| Additive | Nucleating Agent | | |
| Features | Copolymer | | |
| | Fast Molding Cycle | | |
| | Good Chemical Resistance | | |
| | Good Creep Resistance | | |
| | Good Flow | | |
| | Good Mold Release | | |
| | Good Organoleptic Properties | | |
| | Good Processability | | |
| | Good Thermal Stability | | |
| | High ESCR (Stress Crack Resist.) | | |
| | High Impact Resistance | | |
| | High Melt Stability | | |
| | High Stiffness | | |
| | Low Temperature Impact Resistance | | |
| | Nucleated | | |
| Uses | Crates | | |
| | Engineering Parts | | |
| | Luggage | | |
| | Waste Containers | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 0.905 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 3.5 | g/10 min | ISO 1133 |
| Molding Shrinkage | 1.0 to 2.0 | % | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Tensile Modulus | 1350 | MPa | ISO 527-2/50 |
| Tensile Stress (Yield) | 25.0 | MPa | ISO 527-2/50 |
| Tensile Strain (Yield) | 6.0 | % | ISO 527-2/50 |
| Flexural Modulus | 1250 | MPa | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -20°C | 6.5 | $kJ/m^2$ | |
| 23°C | 15 | $kJ/m^2$ | |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 85.0 | °C | ISO 75-2/B |
| **Injection** | **Nominal Value** | **Unit** | |
| Processing (Melt) Temp | 230 to 260 | °C | |
| Mold Temperature | 10.0 to 30.0 | °C | |
| Injection Rate | Fast | | |
| Holding Pressure | 20.0 to 50.0 | MPa | |



## Recommended distributors for this material

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