

Borealis PP BE170MO

Polypropylene Copolymer

Borealis AG

Message:

BE170MO is a heterophasic copolymer. This grade is characterized by high impact strength, high stiffness and good flow properties. This grade contains additives providing low taste and odour as well as good processability and easy demoulding. These properties, together with high gloss, make this grade excellent choice for household and packaging articles.

| General Information | | | |
|---|------------------------|-------------------|--------------|
| UL YellowCard | E108112-218622 | | |
| Features | Copolymer | | |
| | Good Flow | | |
| | Good Mold Release | | |
| | Good Processability | | |
| | High Gloss | | |
| | High Impact Resistance | | |
| | High Stiffness | | |
| | Low to No Odor | | |
| | Low to No Taste | | |
| Uses | Crates | | |
| | Engineering Parts | | |
| | Household Goods | | |
| | Packaging | | |
| | Pails | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.902 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 13 | g/10 min | ISO 1133 |
| Molding Shrinkage | 1.0 to 2.0 | % | ISO 294-4 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 86 | | ISO 2039-2 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 1250 | MPa | ISO 527-2/1 |
| Tensile Stress (Yield) | 25.0 | MPa | ISO 527-2/50 |
| Tensile Strain (Yield) | 6.0 | % | ISO 527-2/50 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength | | | ISO 179/1eA |

| -20°C | 4.0 | kJ/m ² | |
|--|---------------|-------------------|-------------|
| 23°C | 8.0 | kJ/m ² | |
| Multi-Axial Instrumented Impact Energy | | | ISO 6603-2 |
| -20°C, Total Penetration Energy | 25.0 | J | |
| 0°C, Total Penetration Energy | 35.0 | J | |
| 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 | |

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