

Ferro PP LPP20BN18HB-WH

Polypropylene
Ferro Corporation

Message:

Ferro PP LPP20BN18HB-WH is a Polypropylene material filled with 20% calcium carbonate. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Ferro PP LPP20BN18HB-WH are:

Good Processability
Good UV Resistance
Impact Resistant

Typical applications include:

Coating Applications
Handles
Household Applications

| General Information | | | |
|---|--|-------------------|-------------|
| Filler / Reinforcement | Calcium Carbonate,20% Filler by Weight | | |
| Features | Good Impact Resistance | | |
| | Good Processability | | |
| | Good UV Resistance | | |
| | Medium Gloss | | |
| Uses | Handles | | |
| | Lawn and Garden Equipment | | |
| | Protective Coverings | | |
| Appearance | White | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.09 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 29 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 1.5 | % | ASTM D955 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 71 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 24.1 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 60 | % | ASTM D638 |
| Flexural Modulus | 1520 | MPa | ASTM D790 |
| Flexural Strength (Yield) | 37.2 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 48 | J/m | ASTM D256 |

| Unnotched Izod Impact (23°C) | 910 | J/m | ASTM D256 |
|-----------------------------------|----------------|------|-------------|
| Gardner Impact | 11.3 | J | ASTM D3029 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 98.9 | °C | |
| 1.8 MPa, Unannealed | 57.8 | °C | |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 93.3 | °C | |
| Drying Time | 2.0 to 3.0 | hr | |
| Rear Temperature | 202 to 204 | °C | |
| Middle Temperature | 204 to 210 | °C | |
| Front Temperature | 210 to 213 | °C | |
| Nozzle Temperature | 213 to 218 | °C | |
| Mold Temperature | 43.3 to 51.7 | °C | |
| Back Pressure | 0.345 to 0.689 | MPa | |

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