

FERREX® GPP20CS07NA

Polypropylene
Ferro Corporation

Message:

FERREX® GPP20CS07NA is a polypropylene material, and its filler is 21% calcium carbonate filler. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is injection molding.

FERREX® The main features of the GPP20CS07NA are:

Impact modification
high gloss
Impact resistance

Typical application areas include:

House
home apps

| General Information | | | |
|---|--|-------------------|-------------|
| Filler / Reinforcement | Calcium carbonate filler, 21% filler by weight | | |
| Additive | Impact modifier | | |
| Features | Impact modification | | |
| | Highlight | | |
| | Impact resistance, good | | |
| Uses | Lawn and Garden Equipment | | |
| | Shell | | |
| Appearance | Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.05 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 12 | g/10 min | ASTM D1238 |
| Molding Shrinkage | | | ASTM D955 |
| Flow | 1.6 | % | ASTM D955 |
| Transverse flow | 1.8 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (23°C) | 23.4 | MPa | ASTM D638 |
| Tensile Elongation (Break, 23°C) | 200 | % | ASTM D638 |
| Flexural Modulus | | | ASTM D790 |
| 1% secant: 23°C | 1510 | MPa | ASTM D790 |
| Tangent: 23°C | 1670 | MPa | ASTM D790 |
| Flexural Strength (23°C) | 37.9 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 100 | J/m | ASTM D256 |

| Unnotched Izod Impact (23°C) | 1200 | J/m | ASTM D256 |
|-----------------------------------|---------------|------|-------------|
| Dart Drop Impact (23°C, 3.18 mm) | 27.1 | J | ASTM D5420 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 79.4 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 48.9 | °C | ASTM D648 |

Additional Information

The value listed as Unnotched Izod Impact, ASTM D256, was tested in accordance with ASTM D4812. Elongation @ break, 73°F, ASTM D638: >200%

| Injection | Nominal Value | Unit |
|-------------------------|---------------|--------------------|
| Drying Temperature | 93.3 | °C |
| Drying Time | 2.0 - 3.0 | hr |
| Rear Temperature | 199 - 204 | °C |
| Middle Temperature | 204 - 210 | °C |
| Front Temperature | 210 - 216 | °C |
| Nozzle Temperature | 216 - 221 | °C |
| Mold Temperature | 46.1 - 60.0 | °C |
| Back Pressure | 0.138 - 0.345 | MPa |
| Screw Speed | 100 - 150 | rpm |
| Clamp Tonnage | 2.8 - 4.1 | kN/cm ² |
| Screw L/D Ratio | 20.0:1.0 | |
| Screw Compression Ratio | 2.0:1.0 | |

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