

FERREX® GPP20CS42BK

Polypropylene

Ferro Corporation

Message:

FERREX® GPP20CS42BK 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 FERREX® GPP20CS42BK are:

High Gloss

Impact Modified

Impact Resistant

Typical applications include:

Household Applications

Housings

| General Information | | | |
|---|--|-------------------|-------------|
| Filler / Reinforcement | Calcium Carbonate,20% Filler by Weight | | |
| Additive | Impact Modifier | | |
| Features | Good Impact Resistance | | |
| | High Gloss | | |
| | Impact Modified | | |
| Uses | Housings | | |
| | Lawn and Garden Equipment | | |
| Appearance | Black | | |
| Forms | Pellets | | |
| 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) | 10 | g/10 min | ASTM D1238 |
| Molding Shrinkage | | | ASTM D955 |
| Flow | 1.7 | % | |
| Across Flow | 1.8 | % | |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 68 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (23°C) | 23.4 | MPa | ASTM D638 |
| Tensile Elongation (Break, 23°C) | 150 | % | ASTM D638 |
| Flexural Modulus | | | ASTM D790 |
| 1% Secant : 23°C | 1340 | MPa | |
| Tangent : 23°C | 1520 | MPa | |
| Flexural Strength (23°C) | 35.2 | MPa | ASTM D790 |

| Impact | Nominal Value | Unit | Test Method |
|-----------------------------------|----------------|--------------------|-------------|
| Notched Izod Impact (23°C) | 100 | J/m | ASTM D256 |
| Gardner Impact (23°C) | 30.5 | J | ASTM D5420 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 94.4 | °C | |
| | 51.1 | | |
| 1.8 MPa, Unannealed | 51.7 | °C | |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 93.3 | °C | |
| Drying Time | 2.0 to 3.0 | hr | |
| Rear Temperature | 199 to 204 | °C | |
| Middle Temperature | 204 to 210 | °C | |
| Front Temperature | 210 to 216 | °C | |
| Nozzle Temperature | 216 to 221 | °C | |
| Mold Temperature | 46.1 to 60.0 | °C | |
| Back Pressure | 0.138 to 0.345 | MPa | |
| Screw Speed | 100 to 150 | rpm | |
| Clamp Tonnage | 2.8 to 4.1 | kN/cm ² | |
| Screw L/D Ratio | 20.0:1.0 | | |
| Screw Compression Ratio | 2.0:1.0 | | |

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