

# FERREX® GPP20CF60UL BLACK

Polypropylene Homopolymer

Ferro Corporation

## Message:

FERREX® GPP20CF60UL BLACK is a Polypropylene Homopolymer (PP Homopolymer) material filled with 23% calcium carbonate. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding. Primary attribute of FERREX® GPP20CF60UL BLACK: Homopolymer.

| General Information                       |                                        |                   |             |
|-------------------------------------------|----------------------------------------|-------------------|-------------|
| Filler / Reinforcement                    | Calcium Carbonate,23% Filler by Weight |                   |             |
| Features                                  | Homopolymer                            |                   |             |
| Appearance                                | Black                                  |                   |             |
| Forms                                     | Pellets                                |                   |             |
| Processing Method                         | Injection Molding                      |                   |             |
| Physical                                  | Nominal Value                          | Unit              | Test Method |
| Specific Gravity                          | 1.09                                   | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 21                                     | g/10 min          | ASTM D1238  |
| Molding Shrinkage                         |                                        |                   | ASTM D955   |
| Flow                                      | 1.6                                    | %                 |             |
| Across Flow                               | 1.9                                    | %                 |             |
| Mechanical                                | Nominal Value                          | Unit              | Test Method |
| Tensile Strength (23°C)                   | 29.3                                   | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)          | 25                                     | %                 | ASTM D638   |
| Flexural Modulus                          |                                        |                   | ASTM D790   |
| 1% Secant : 23°C                          | 1850                                   | MPa               |             |
| Tangent : 23°C                            | 2110                                   | MPa               |             |
| Flexural Strength (23°C)                  | 44.1                                   | MPa               | ASTM D790   |
| Impact                                    | Nominal Value                          | Unit              | Test Method |
| Notched Izod Impact (23°C)                | 37                                     | J/m               | ASTM D256   |
| Unnotched Izod Impact (23°C)              | 850                                    | J/m               | ASTM D4812  |
| Gardner Impact (23°C)                     | 5.08                                   | J                 | ASTM D5420  |
| Thermal                                   | Nominal Value                          | Unit              | Test Method |
| Deflection Temperature Under Load         |                                        |                   | ASTM D648   |
| 0.45 MPa, Unannealed                      | 113                                    | °C                |             |
| 1.8 MPa, Unannealed                       | 60.0                                   | °C                |             |

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