

# Ferro PP TPP20AC12BK

Polypropylene Homopolymer

Ferro Corporation

Message:

Ferro PP TPP20AC12BK is a Polypropylene Homopolymer (PP Homopolymer) material filled with 22% talc. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Ferro PP TPP20AC12BK are:

Heat Stabilizer

Homopolymer

| General Information                       |                           |                   |             |
|-------------------------------------------|---------------------------|-------------------|-------------|
| Filler / Reinforcement                    | Talc,22% Filler by Weight |                   |             |
| Additive                                  | Heat Stabilizer           |                   |             |
| Features                                  | Heat Stabilized           |                   |             |
|                                           | Homopolymer               |                   |             |
| Forms                                     | Pellets                   |                   |             |
| Processing Method                         | Injection Molding         |                   |             |
| Physical                                  | Nominal Value             | Unit              | Test Method |
| Specific Gravity                          | 1.05                      | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 5.5                       | g/10 min          | ASTM D1238  |
| Molding Shrinkage                         |                           |                   | ASTM D955   |
| Flow                                      | 1.5                       | %                 |             |
| Across Flow                               | 1.7                       | %                 |             |
| Mechanical                                | Nominal Value             | Unit              | Test Method |
| Tensile Strength (23°C)                   | 30.3                      | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)          | 10                        | %                 | ASTM D638   |
| Flexural Modulus                          |                           |                   | ASTM D790   |
| 1% Secant : 23°C                          | 2100                      | MPa               |             |
| Tangent : 23°C                            | 2400                      | MPa               |             |
| Flexural Strength (23°C)                  | 46.9                      | MPa               | ASTM D790   |
| Impact                                    | Nominal Value             | Unit              | Test Method |
| Notched Izod Impact (23°C)                | 32                        | J/m               | ASTM D256   |
| Unnotched Izod Impact (23°C)              | 500                       | J/m               | ASTM D4812  |
| Gardner Impact (23°C)                     | 0.678                     | J                 | ASTM D5420  |
| Thermal                                   | Nominal Value             | Unit              | Test Method |
| Deflection Temperature Under Load         |                           |                   | ASTM D648   |
| 0.45 MPa, Unannealed                      | 124                       | °C                |             |
| 1.8 MPa, Unannealed                       | 70.0                      | °C                |             |

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