

# Ferro PP TPP40AE05UL-BK

Polypropylene Homopolymer

Ferro Corporation

Message:

Ferro PP TPP40AE05UL-BK is a Polypropylene Homopolymer (PP Homopolymer) material filled with 42% talc. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Ferro PP TPP40AE05UL-BK are:

Heat Stabilizer

Homopolymer

| General Information                       |                           |                   |             |
|-------------------------------------------|---------------------------|-------------------|-------------|
| Filler / Reinforcement                    | Talc,42% Filler by Weight |                   |             |
| Additive                                  | Heat Stabilizer           |                   |             |
| Features                                  | Heat Stabilized           |                   |             |
|                                           | Homopolymer               |                   |             |
| Appearance                                | Black                     |                   |             |
| Forms                                     | Pellets                   |                   |             |
| Processing Method                         | Injection Molding         |                   |             |
| Physical                                  | Nominal Value             | Unit              | Test Method |
| Specific Gravity                          | 1.27                      | 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                                      | 1.1                       | %                 |             |
| Across Flow                               | 1.3                       | %                 |             |
| Hardness                                  | Nominal Value             | Unit              | Test Method |
| Durometer Hardness (Shore D)              | 75                        |                   | ASTM D2240  |
| Mechanical                                | Nominal Value             | Unit              | Test Method |
| Tensile Strength (23°C)                   | 30.3                      | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)          | 6.0                       | %                 | ASTM D638   |
| Flexural Modulus                          |                           |                   | ASTM D790   |
| 1% Secant : 23°C                          | 2990                      | MPa               |             |
| Tangent : 23°C                            | 3830                      | MPa               |             |
| Flexural Strength (23°C)                  | 51.0                      | MPa               | ASTM D790   |
| Impact                                    | Nominal Value             | Unit              | Test Method |
| Notched Izod Impact (23°C)                | 21                        | J/m               | ASTM D256   |
| Unnotched Izod Impact (23°C)              | 220                       | J/m               | ASTM D4812  |
| Gardner Impact (23°C)                     | 0.565                     | J                 | ASTM D5420  |
| Thermal                                   | Nominal Value             | Unit              | Test Method |
| Deflection Temperature Under Load         |                           |                   | ASTM D648   |
| 0.45 MPa, Unannealed                      | 132                       | °C                |             |

| 1.8 MPa, Unannealed     | 82.2           | °C                 |
|-------------------------|----------------|--------------------|
| Injection               | Nominal Value  | Unit               |
| Drying Temperature      | 93.3           | °C                 |
| Drying Time             | 2.0 to 3.0     | hr                 |
| Rear Temperature        | 204 to 210     | °C                 |
| Middle Temperature      | 210 to 213     | °C                 |
| Front Temperature       | 213 to 216     | °C                 |
| Nozzle Temperature      | 216 to 218     | °C                 |
| Mold Temperature        | 43.3 to 54.4   | °C                 |
| Back Pressure           | 0.138 to 0.345 | MPa                |
| Screw Speed             | 100 to 150     | rpm                |
| Clamp Tonnage           | 2.8 to 4.1     | kN/cm <sup>2</sup> |
| Screw L/D Ratio         | 20.0:1.0       |                    |
| Screw Compression Ratio | 2.0:1.0        |                    |

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