

# GAPEX® RPP10EA30BK

Polypropylene Homopolymer

Ferro Corporation

## Message:

GAPEX®RPP10EA30BK is a polypropylene homopolymer (PP Homopoly) material, and its filler is 10% glass fiber reinforced material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. GAPEX®The main characteristics of the RPP10EA30BK are: chemical coupling.

| General Information                                                                                         |                                                       |                   |             |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                                                                      | Glass fiber reinforced material, 10% filler by weight |                   |             |
| Features                                                                                                    | Chemical coupling                                     |                   |             |
| Forms                                                                                                       | Particle                                              |                   |             |
| Physical                                                                                                    | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                                                                                            | 0.978                                                 | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                                                                   | 5.0                                                   | g/10 min          | ASTM D1238  |
| Molding Shrinkage                                                                                           |                                                       |                   | ASTM D955   |
| Flow                                                                                                        | 0.90                                                  | %                 | ASTM D955   |
| Transverse flow                                                                                             | 1.2                                                   | %                 | ASTM D955   |
| Mechanical                                                                                                  | Nominal Value                                         | Unit              | Test Method |
| Tensile Strength (23°C)                                                                                     | 44.8                                                  | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)                                                                            | 4.0                                                   | %                 | ASTM D638   |
| Flexural Modulus                                                                                            |                                                       |                   | ASTM D790   |
| 1% secant: 23°C                                                                                             | 2260                                                  | MPa               | ASTM D790   |
| Tangent: 23°C                                                                                               | 2380                                                  | MPa               | ASTM D790   |
| Flexural Strength (23°C)                                                                                    | 73.1                                                  | MPa               | ASTM D790   |
| Impact                                                                                                      | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (23°C)                                                                                  | 53                                                    | J/m               | ASTM D256   |
| Unnotched Izod Impact (23°C)                                                                                | 400                                                   | J/m               | ASTM D4812  |
| Dart Drop Impact (23°C)                                                                                     | 0.339                                                 | J                 | ASTM D5420  |
| Thermal                                                                                                     | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load                                                                           |                                                       |                   | ASTM D648   |
| 0.45 MPa, not annealed                                                                                      | 149                                                   | °C                | ASTM D648   |
| 1.8 MPa, not annealed                                                                                       | 124                                                   | °C                | ASTM D648   |
| Additional Information                                                                                      |                                                       |                   |             |
| Testing and measurements were performed at 73 +/-3°F and 50 +/-5% relative humidity unless otherwise noted. |                                                       |                   |             |
| Injection                                                                                                   | Nominal Value                                         | Unit              |             |
| Drying Temperature                                                                                          | 71.1 - 82.2                                           | °C                |             |
| Drying Time                                                                                                 | 2.0 - 4.0                                             | hr                |             |
| Rear Temperature                                                                                            | 221 - 238                                             | °C                |             |
| Middle Temperature                                                                                          | 227 - 243                                             | °C                |             |

|                        |               |     |
|------------------------|---------------|-----|
| Front Temperature      | 232 - 260     | °C  |
| Nozzle Temperature     | 232 - 260     | °C  |
| Processing (Melt) Temp | 221 - 238     | °C  |
| Mold Temperature       | 37.8 - 65.6   | °C  |
| Injection Rate         | Slow-Moderate |     |
| Back Pressure          | 0.138 - 0.345 | MPa |
| Cushion                | 5.08 - 12.7   | mm  |

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