

# GAPEX® RPP25DZ04BL

Polypropylene

Ferro Corporation

## Message:

GAPEX® RPP25DZ04BL is a Polypropylene material filled with 25% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

| General Information                       |                                  |                   |             |
|-------------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                    | Glass Fiber,25% Filler by Weight |                   |             |
| Appearance                                | Blue                             |                   |             |
| Forms                                     | Pellets                          |                   |             |
| Processing Method                         | Injection Molding                |                   |             |
| Physical                                  | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                          | 1.08                             | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 7.0                              | g/10 min          | ASTM D1238  |
| Mechanical                                | Nominal Value                    | Unit              | Test Method |
| Tensile Strength (Yield)                  | 39.6                             | MPa               | ASTM D638   |
| Tensile Elongation (Break)                | 4.0                              | %                 | ASTM D638   |
| Flexural Modulus                          | 2760                             | MPa               | ASTM D790   |
| Flexural Strength (Yield)                 | 62.1                             | MPa               | ASTM D790   |
| Impact                                    | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (23°C)                | 24                               | J/m               | ASTM D256   |
| Unnotched Izod Impact (23°C)              | 210                              | J/m               | ASTM D256   |
| Thermal                                   | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load         |                                  |                   | ASTM D648   |
| 0.45 MPa, Unannealed                      | 154                              | °C                |             |
| 1.8 MPa, Unannealed                       | 135                              | °C                |             |
| Injection                                 | Nominal Value                    | Unit              |             |
| Drying Temperature                        | 71.1 to 82.2                     | °C                |             |
| Drying Time                               | 2.0 to 4.0                       | hr                |             |
| Rear Temperature                          | 221 to 238                       | °C                |             |
| Middle Temperature                        | 227 to 243                       | °C                |             |
| Front Temperature                         | 232 to 260                       | °C                |             |
| Nozzle Temperature                        | 232 to 260                       | °C                |             |
| Processing (Melt) Temp                    | 221 to 238                       | °C                |             |
| Mold Temperature                          | 37.8 to 65.6                     | °C                |             |
| Injection Rate                            | Slow-Moderate                    |                   |             |
| Back Pressure                             | 0.138 to 0.345                   | MPa               |             |
| Cushion                                   | 5.08 to 12.7                     | mm                |             |

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