

# GAPEX® HP RPP20EV10HB

Polypropylene Copolymer

Ferro Corporation

## Message:

GAPEX® HP RPP20EV10HB is a polypropylene copolymer (PP Copoly) material, which contains a 20% 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 features of HP RPP20EV10HB are:

Copolymer

Chemical coupling

| General Information                       |                                                       |                   |             |
|-------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                    | Glass fiber reinforced material, 20% filler by weight |                   |             |
| Features                                  | Copolymer                                             |                   |             |
|                                           | Chemical coupling                                     |                   |             |
| Appearance                                | Grey                                                  |                   |             |
| Forms                                     | Particle                                              |                   |             |
| Physical                                  | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                          | 1.06                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 4.0                                                   | g/10 min          | ASTM D1238  |
| Molding Shrinkage                         |                                                       |                   | ASTM D955   |
| Flow                                      | 0.50                                                  | %                 | ASTM D955   |
| Transverse flow                           | 0.90                                                  | %                 | ASTM D955   |
| Mechanical                                | Nominal Value                                         | Unit              | Test Method |
| Tensile Strength (Yield, 23°C)            | 64.1                                                  | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)          | 4.5                                                   | %                 | ASTM D638   |
| Flexural Modulus                          |                                                       |                   | ASTM D790   |
| 1% secant: 23°C                           | 3520                                                  | MPa               | ASTM D790   |
| Tangent: 23°C                             | 3690                                                  | MPa               | ASTM D790   |
| Flexural Strength (Yield, 23°C)           | 100                                                   | MPa               | ASTM D790   |
| Impact                                    | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (23°C)                | 120                                                   | J/m               | ASTM D256   |
| Unnotched Izod Impact (23°C)              | 510                                                   | J/m               | ASTM D256   |
| Thermal                                   | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load         |                                                       |                   | ASTM D648   |
| 0.45 MPa, not annealed                    | 158                                                   | °C                | ASTM D648   |
| 1.8 MPa, not annealed                     | 143                                                   | °C                | ASTM D648   |
| RTI Elec (1.50 mm)                        | 65.0                                                  | °C                | UL 746      |
| RTI Imp (1.50 mm)                         | 65.0                                                  | °C                | UL 746      |
| RTI (1.50 mm)                             | 65.0                                                  | °C                | UL 746      |
| Additional Information                    |                                                       |                   |             |

Filler Content, ASTM D2584: 21%

| 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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