

# GAPEX® RPP20EB03NA

Polypropylene Homopolymer

Ferro Corporation

## Message:

GAPEX®RPP20EB03NA is a polypropylene homopolymer (PP Homopoly) material, and its filler is 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 the RPP20EB03NA are:

Chemical coupling

heat stabilizer

| General Information                                                                                         |                                                       |                   |             |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                                                                      | Glass fiber reinforced material, 20% filler by weight |                   |             |
| Additive                                                                                                    | heat stabilizer                                       |                   |             |
| Features                                                                                                    | Chemical coupling                                     |                   |             |
|                                                                                                             | Thermal Stability                                     |                   |             |
| Forms                                                                                                       | Particle                                              |                   |             |
| Physical                                                                                                    | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                                                                                            | 1.04                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                                                                   | 9.0                                                   | g/10 min          | ASTM D1238  |
| Molding Shrinkage                                                                                           |                                                       |                   | ASTM D955   |
| Flow                                                                                                        | 0.60                                                  | %                 | ASTM D955   |
| Transverse flow                                                                                             | 1.1                                                   | %                 | ASTM D955   |
| Mechanical                                                                                                  | Nominal Value                                         | Unit              | Test Method |
| Tensile Strength (23°C)                                                                                     | 67.6                                                  | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)                                                                            | 3.5                                                   | %                 | ASTM D638   |
| Flexural Modulus                                                                                            |                                                       |                   | ASTM D790   |
| 1% secant: 23°C                                                                                             | 3680                                                  | MPa               | ASTM D790   |
| Tangent: 23°C                                                                                               | 3880                                                  | MPa               | ASTM D790   |
| Flexural Strength (23°C)                                                                                    | 96.5                                                  | MPa               | ASTM D790   |
| Impact                                                                                                      | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (23°C)                                                                                  | 69                                                    | J/m               | ASTM D256   |
| Unnotched Izod Impact (23°C)                                                                                | 410                                                   | J/m               | ASTM D4812  |
| Dart Drop Impact (23°C)                                                                                     | 0.282                                                 | J                 | ASTM D5420  |
| Thermal                                                                                                     | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load                                                                           |                                                       |                   | ASTM D648   |
| 0.45 MPa, not annealed                                                                                      | 152                                                   | °C                | ASTM D648   |
| 1.8 MPa, not annealed                                                                                       | 146                                                   | °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  |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

