

# GAPEX® RPP20EU76WH

Polypropylene

Ferro Corporation

## Message:

GAPEX® RPP20EU76WH is a Polypropylene material filled with 20% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Important attributes of GAPEX® RPP20EU76WH are:

Chemically Coupled

Impact Modified

| General Information                       |                                  |                   |             |
|-------------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                    | Glass Fiber,20% Filler by Weight |                   |             |
| Additive                                  | Impact Modifier                  |                   |             |
| Features                                  | Chemically Coupled               |                   |             |
|                                           | Impact Modified                  |                   |             |
| Forms                                     | Pellets                          |                   |             |
| Physical                                  | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                          | 1.07                             | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 17                               | g/10 min          | ASTM D1238  |
| Molding Shrinkage                         |                                  |                   | ASTM D955   |
| Flow                                      | 0.50                             | %                 |             |
| Across Flow                               | 1.1                              | %                 |             |
| Mechanical                                | Nominal Value                    | Unit              | Test Method |
| Tensile Strength (23°C)                   | 53.1                             | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)          | 3.0                              | %                 | ASTM D638   |
| Flexural Modulus                          |                                  |                   | ASTM D790   |
| 1% Secant : 23°C                          | 3550                             | MPa               |             |
| Tangent : 23°C                            | 3630                             | MPa               |             |
| Flexural Strength (23°C)                  | 86.2                             | MPa               | ASTM D790   |
| Impact                                    | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (23°C)                | 48                               | J/m               | ASTM D256   |
| Unnotched Izod Impact (23°C)              | 370                              | J/m               | ASTM D256   |
| Gardner Impact                            | 0.282                            | J                 | ASTM D5420  |
| Thermal                                   | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load         |                                  |                   | ASTM D648   |
| 0.45 MPa, Unannealed                      | 152                              | °C                |             |
| 1.8 MPa, Unannealed                       | 141                              | °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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#### Recommended distributors for this material

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