

GAPEX® RPP20EA45NA

Polypropylene Homopolymer

Ferro Corporation

Message:

GAPEX®RPP20EA45NA 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 characteristics of the RPP20EA45NA are: chemical coupling.

| General Information | | | |
|--|---|-------------------|-------------|
| Filler / Reinforcement | Glass fiber reinforced material, 20% filler by weight | | |
| Features | Chemical coupling | | |
| Forms | Particle | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.04 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 7.0 | 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) | 4.0 | % | ASTM D638 |
| Flexural Modulus | | | ASTM D790 |
| 1% secant: 23°C | 3740 | MPa | ASTM D790 |
| Tangent: 23°C | 4010 | MPa | ASTM D790 |
| Flexural Strength (23°C) | 102 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 75 | J/m | ASTM D256 |
| Unnotched Izod Impact (23°C) | 460 | J/m | ASTM D256 |
| 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 | 157 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 146 | °C | ASTM D648 |
| Additional Information | | | |
| The value listed as Unnotched Izod Impact, ASTM D256, was tested in accordance with ASTM D4812.Filler Content, ASTM D2584, 20.0%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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