# Pibiter® NRV220AE NAT001

Polybutylene Terephthalate

SO.F.TER. SPA

## Message:

20% glass fiber reinforced, flame retardant PBT grade

| General Information | | | |
|---|---|---|---|
| Filler / Reinforcement | Glass Fiber,20% Filler by Weight | | |
| Features | Flame Retardant | | |
| Agency Ratings | EC 1907/2006 (REACH) | | |
| Appearance | Natural Color | | |
| Processing Method | Injection Molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | 1.57 | g/cm³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (250°C/2.16 kg) | 18 | g/10 min | ASTM D1238 |
| Molding Shrinkage | 0.50 | % | Internal Method |
| Water Absorption | | | |
| 23°C, 24 hr | 0.045 | % | ASTM D570 |
| Equilibrium, 23°C, 50% RH | 0.30 | % | ISO 62 |
| Ash Content | 20 | % | Internal Method |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 8000 | MPa | ASTM D638 |
| Tensile Strength (Break) | 102 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 2.5 | % | ASTM D638 |
| Flexural Modulus | 7500 | MPa | ASTM D790 |
| Flexural Strength | 165 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (23°C) | 70 | J/m | ASTM D256 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 222 | °C | |
| 1.8 MPa, Unannealed | 209 | °C | |
| Vicat Softening Temperature | 205 | °C | ASTM D1525 [1] |
| **Flammability** | **Nominal Value** | | **Test Method** |
| Flame Rating (0.750 mm) | V-0 | | UL 94 |
| **Injection** | **Nominal Value** | **Unit** | |
| Drying Temperature | 110 | °C | |
| Drying Time | 3.0 | hr | |
| Rear Temperature | 235 | °C | |

| | | |
|---|---|---|
| Middle Temperature | 245 | °C |
| Front Temperature | 250 | °C |
| Mold Temperature | 60.0 to 80.0 | °C |

| NOTE | |
|---|---|
| 1. | Rate A (50°C/h), Loading 2 (50 N) |



## Recommended distributors for this material

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