# Trilliant™ HC HC3320-0020 RS Natural

Polybutylene Terephthalate

PolyOne Corporation

## Message:

The Trilliant® specialty compounds offer a complete system of specialty engineered materials, certified processes, services and technical support that enable healthcare OEM's to get to market ahead of the competition. When specified, Trilliant® compounds may incorporate agency rated materials that meet USP Class VI, FDA or ISO 10993 testing requirements.

| General Information | | | |
|---|---|---|---|
| Filler / Reinforcement | Glass Fiber,20% Filler by Weight | | |
| Features | Biocompatible<br>Good Chemical Resistance<br>Good Colorability<br>Specialty Grade | | |
| Uses | Hospital Goods<br>Medical/Healthcare Applications | | |
| Agency Ratings | USP Class VI | | |
| Appearance | Natural Color | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | 1.46 | g/cm³ | ASTM D792 |
| Molding Shrinkage | | | ASTM D955 |
| Flow | 0.40 | % | |
| Across Flow | 1.8 | % | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength [1] (Yield) | 96.5 | MPa | ASTM D638 |
| Tensile Elongation [2] (Break) | 9.0 | % | ASTM D638 |
| Flexural Modulus | 6140 | MPa | ASTM D790 |
| Flexural Strength | 162 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (23°C, 3.18 mm, Injection Molded) | 48 | J/m | ASTM D256A |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (0.45 MPa, Annealed, 3.18 mm) | > 218 | °C | ASTM D648 |
| Melting Temperature | 216 to 232 | °C | |
| **Injection** | **Nominal Value** | **Unit** | |
| Drying Temperature | 93.3 | °C | |

| | | |
|---|---|---|
| Drying Time | 3.0 | hr |
| Mold Temperature | 48.9 to 65.6 | °C |

| NOTE | |
|---|---|
| 1. | Type I, 51 mm/min |
| 2. | Type I, 51 mm/min |



## Recommended distributors for this material

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