# Geon™ BIO RC6500

Flexible Polyvinyl Chloride

PolyOne Corporation

## Message:

A flexible vinyl formulated to achieve a minimum level of 25% bio-based content and classified as a PolyOne Sustainable Solution

| General Information | |
|---|---|
| Features | Non-Phthalate Plasticizer<br>Renewable Resource Content |
| Uses | Building Materials<br>Consumer Applications<br>Industrial Applications |
| Forms | Pellets |
| Processing Method | Extrusion<br>Injection Molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Specific Gravity | 1.35 | g/cm³ | ASTM D792 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness | | | ASTM D2240 |
| Shore A | 56 | | |
| Shore A, 15 sec | 58 | | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength [1] | | | ASTM D638 |
| Break | 9.20 | MPa | |
| 100% Strain | 3.16 | MPa | |
| Tensile Elongation [2] (Break) | 420 | % | ASTM D638 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tear Strength [3] | 29.2 | kN/m | ASTM D624 |
| Compression Set (23°C, 22 hr) | 25 | % | ASTM D395 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Brittleness Temperature | -33.6 | °C | ASTM D746 |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| Oxygen Index | 21 | % | ASTM D2863 |
| **Injection** | **Nominal Value** | **Unit** | |
| Processing (Melt) Temp | 188 to 199 | °C | |
| **Extrusion** | **Nominal Value** | **Unit** | |
| Melt Temperature | 168 to 174 | °C | |

| NOTE | |
|---|---|
| 1. | 510 mm/min |
| 2. | 510 mm/min |
| 3. | Die C, 510 mm/min |

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## Recommended distributors for this material


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