

# Geon™ Vinyl Flexible B4DC1

Flexible Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Flexible B4DC1 is a Flexible Polyvinyl Chloride product. It can be processed by extrusion or injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Hose/Tubing.

| General Information |                   |  |  |
|---------------------|-------------------|--|--|
| Uses                | Hose              |  |  |
|                     | Tubing            |  |  |
| Forms               | Pellets           |  |  |
| Processing Method   | Extrusion         |  |  |
|                     | Injection Molding |  |  |

| Physical                 | Nominal Value | Unit              | Test Method |
|--------------------------|---------------|-------------------|-------------|
| Specific Gravity         | 1.35          | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow | 0.80 to 1.2   | %                 | ASTM D955   |

| Hardness           | Nominal Value | Unit | Test Method |
|--------------------|---------------|------|-------------|
| Durometer Hardness |               |      | ASTM D2240  |
| Shore D            | 50            |      |             |
| Shore D, 15 sec    | 36            |      |             |

| Mechanical                              | Nominal Value | Unit | Test Method |
|-----------------------------------------|---------------|------|-------------|
| Tensile Strength <sup>1</sup>           |               |      | ASTM D638   |
| Break                                   | 15.9          | MPa  |             |
| 100% Strain                             | 8.27          | MPa  |             |
| Tensile Elongation <sup>2</sup> (Break) | 350           | %    | ASTM D638   |

| Elastomers                    | Nominal Value | Unit | Test Method |
|-------------------------------|---------------|------|-------------|
| Tear Strength <sup>3</sup>    | 77.1          | kN/m | ASTM D624   |
| Compression Set (23°C, 22 hr) | 60            | %    | ASTM D395   |
| Clash-Berg Modulus            |               |      | ASTM D1043  |
| --                            | 490           | MPa  |             |
| -33°C                         | 310           | MPa  |             |

| Thermal                 | Nominal Value | Unit | Test Method |
|-------------------------|---------------|------|-------------|
| Brittleness Temperature | -33.3         | °C   | ASTM D746   |

| Injection              | Nominal Value | Unit |  |
|------------------------|---------------|------|--|
| Processing (Melt) Temp | 196 to 207    | °C   |  |

| Extrusion        | Nominal Value | Unit |  |
|------------------|---------------|------|--|
| Melt Temperature | 179 to 185    | °C   |  |

| NOTE |  |  |  |
|------|--|--|--|
|------|--|--|--|

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

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