



## Geon™ Vinyl Flexible B65U0

### Flexible Polyvinyl Chloride

#### Key Characteristics

| General               |                                          |                             |                 |
|-----------------------|------------------------------------------|-----------------------------|-----------------|
| Material Status       | • Commercial: Active                     |                             |                 |
| Regional Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Additive              | • UV Stabilizer                          |                             |                 |
| Features              | • Medium Gloss                           | • UV Absorbing              |                 |
| Appearance            | • Opaque                                 |                             |                 |
| Forms                 | • Pellets                                |                             |                 |
| Processing Method     | • Extrusion                              | • Injection Molding         |                 |

#### Technical Properties <sup>1</sup>

| Physical                                    | Typical Value (English) | Typical Value (SI) | Test Method |
|---------------------------------------------|-------------------------|--------------------|-------------|
| Density / Specific Gravity                  | 1.24                    | 1.24               | ASTM D792   |
| Molding Shrinkage - Flow                    | 0.019 to 0.023 in/in    | 1.9 to 2.3 %       | ASTM D955   |
| Mechanical                                  | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength <sup>2</sup> (100% Strain) | 525 psi                 | 3.62 MPa           | ASTM D638   |
| Tensile Strength <sup>2</sup> (Break)       | 1500 psi                | 10.3 MPa           | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)     | 460 %                   | 460 %              | ASTM D638   |
| Elastomers                                  | Typical Value (English) | Typical Value (SI) | Test Method |
| Tear Strength <sup>3</sup>                  | 220 lbf/in              | 38.5 kN/m          | ASTM D624   |
| Compression Set (73°F (23°C), 22 hr)        | 22 %                    | 22 %               | ASTM D395   |
| Clash-Berg Modulus                          |                         |                    | ASTM D1043  |
| --                                          | 3500 psi                | 24.1 MPa           |             |
| -67°F (-55°C)                               | 45000 psi               | 310 MPa            |             |
| Hardness                                    | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness                          |                         |                    | ASTM D2240  |
| Shore A                                     | 65                      | 65                 |             |
| Shore A, 15 sec                             | 57                      | 57                 |             |
| Thermal                                     | Typical Value (English) | Typical Value (SI) | Test Method |
| Brittleness Temperature                     | -60.0 °F                | -51.1 °C           | ASTM D746   |

#### Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Processing (Melt) Temp | 370 to 390 °F           | 188 to 199 °C      |
| Extrusion              | Typical Value (English) | Typical Value (SI) |
| Melt Temperature       | 335 to 345 °F           | 168 to 174 °C      |

#### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> 20 in/min (510 mm/min)

<sup>3</sup> Die C, 20 in/min (510 mm/min)