



## Geon™ Vinyl Flexible C5D00

### Flexible Polyvinyl Chloride

#### Key Characteristics

| General               |                                          |                             |                    |
|-----------------------|------------------------------------------|-----------------------------|--------------------|
| Material Status       | • Commercial: Active                     |                             |                    |
| Regional Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America    |
| Features              | • General Purpose                        | • Medium Gloss              |                    |
| Uses                  | • General Purpose                        | • Seals                     | • Weatherstripping |
| Forms                 | • Pellets                                |                             |                    |
| Processing Method     | • Extrusion                              | • Injection Molding         |                    |

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

| Physical                                    | Typical Value (English) | Typical Value (SI) | Test Method |
|---------------------------------------------|-------------------------|--------------------|-------------|
| Density / Specific Gravity                  | 1.48                    | 1.48               | ASTM D792   |
| Mechanical                                  | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength <sup>2</sup> (100% Strain) | 1550 psi                | 10.7 MPa           | ASTM D638   |
| Tensile Strength <sup>2</sup> (Break)       | 2100 psi                | 14.5 MPa           | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)     | 270 %                   | 270 %              | ASTM D638   |
| Elastomers                                  | Typical Value (English) | Typical Value (SI) | Test Method |
| Tear Strength <sup>3</sup>                  | 400 lbf/in              | 70.1 kN/m          | ASTM D624   |
| Compression Set (73°F (23°C), 22 hr)        | 45 %                    | 45 %               | ASTM D395   |
| Clash-Berg Modulus                          | 120000 psi              | 827 MPa            | ASTM D1043  |
| Hardness                                    | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness                          |                         |                    | ASTM D2240  |
| Shore D                                     | 50                      | 50                 |             |
| Shore D, 15 sec                             | 37                      | 37                 |             |
| Thermal                                     | Typical Value (English) | Typical Value (SI) | Test Method |
| Brittleness Temperature                     | 5.00 °F                 | -15.0 °C           | ASTM D746   |

#### Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Processing (Melt) Temp | 380 to 400 °F           | 193 to 204 °C      |
| Extrusion              | Typical Value (English) | Typical Value (SI) |
| Melt Temperature       | 355 to 365 °F           | 179 to 185 °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)