



## Geon™ Vinyl Flexible A4D00

### 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                        | • High Gloss                |                 |
| Uses                  | • General Purpose                        |                             |                 |
| Appearance            | • Clear/Transparent                      |                             |                 |
| Forms                 | • Pellets                                |                             |                 |
| Processing Method     | • Extrusion                              | • Injection Molding         |                 |

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

| Physical                                    | Typical Value (English) | Typical Value (SI) | Test Method |
|---------------------------------------------|-------------------------|--------------------|-------------|
| Density / Specific Gravity                  | 1.26                    | 1.26               | ASTM D792   |
| Molding Shrinkage - Flow                    | 0.012 to 0.016 in/in    | 1.2 to 1.6 %       | ASTM D955   |
| Mechanical                                  | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength <sup>2</sup> (100% Strain) | 2100 psi                | 14.5 MPa           | ASTM D638   |
| Tensile Strength <sup>2</sup> (Break)       | 2900 psi                | 20.0 MPa           | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)     | 330 %                   | 330 %              | ASTM D638   |
| Elastomers                                  | Typical Value (English) | Typical Value (SI) | Test Method |
| Tear Strength <sup>3</sup>                  | 650 lbf/in              | 114 kN/m           | ASTM D624   |
| Compression Set (73°F (23°C), 22 hr)        | 60 %                    | 60 %               | ASTM D395   |
| Clash-Berg Modulus                          |                         |                    | ASTM D1043  |
| --                                          | 110000 psi              | 758 MPa            |             |
| 8°F (-13°C)                                 | 45000 psi               | 310 MPa            |             |
| Hardness                                    | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness                          |                         |                    | ASTM D2240  |
| Shore D                                     | 53                      | 53                 |             |
| Shore D, 15 sec                             | 40                      | 40                 |             |
| Thermal                                     | Typical Value (English) | Typical Value (SI) | Test Method |
| Brittleness Temperature                     | -4.00 °F                | -20.0 °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       | 350 to 370 °F           | 177 to 188 °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)