



## Geon™ Vinyl Flexible R5145A

### 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              | • Biocide                                |                             |                     |
| Uses                  | • Construction Applications              | • Seals                     | • Weatherstripping  |
| Forms                 | • Pellets                                |                             |                     |
| Processing Method     | • Coextrusion                            | • Extrusion                 | • Injection Molding |

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

| Physical                                    | Typical Value (English) | Typical Value (SI) | Test Method |
|---------------------------------------------|-------------------------|--------------------|-------------|
| Density / Specific Gravity                  | 1.34                    | 1.34               | ASTM D792   |
| Mechanical                                  | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength <sup>2</sup> (100% Strain) | 300 psi                 | 2.07 MPa           | ASTM D638   |
| Tensile Strength <sup>2</sup> (Break)       | 950 psi                 | 6.55 MPa           | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)     | 380 %                   | 380 %              | ASTM D638   |
| Elastomers                                  | Typical Value (English) | Typical Value (SI) | Test Method |
| Tear Strength <sup>3</sup>                  | 175 lbf/in              | 30.6 kN/m          | ASTM D624   |
| Hardness                                    | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness (Shore A, 15 sec)        | 45                      | 45                 | ASTM D2240  |
| Thermal                                     | Typical Value (English) | Typical Value (SI) | Test Method |
| Brittleness Temperature                     | -62.0 °F                | -52.2 °C           | ASTM D746   |

#### Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Processing (Melt) Temp | 360 to 390 °F           | 182 to 199 °C      |
| Extrusion              | Typical Value (English) | Typical Value (SI) |
| Melt Temperature       | 325 to 335 °F           | 163 to 168 °C      |

#### Notes

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

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

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