



# Geon™ Vinyl Flexible A87UB

## 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                                | • UV Stabilizer             |                 |
| Features              | • UV Absorbing                           |                             |                 |
| Uses                  | • Flooring                               | • Hose                      | • Tubing        |
| 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                  | 1.22                    | 1.22               | ASTM D792   |
| Mechanical                                  | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength <sup>2</sup> (100% Strain) | 1500 psi                | 10.3 MPa           | ASTM D638   |
| Tensile Strength <sup>2</sup> (Break)       | 2500 psi                | 17.2 MPa           | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)     | 320 %                   | 320 %              | ASTM D638   |
| Elastomers                                  | Typical Value (English) | Typical Value (SI) | Test Method |
| Tear Strength <sup>3</sup>                  | 500 lbf/in              | 87.6 kN/m          | ASTM D624   |
| Hardness                                    | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness                          |                         |                    | ASTM D2240  |
| Shore A                                     | 91                      | 91                 |             |
| Shore A, 15 sec                             | 83                      | 83                 |             |
| Thermal                                     | Typical Value (English) | Typical Value (SI) | Test Method |
| Brittleness Temperature                     | -38.2 °F                | -39.0 °C           | ASTM D746   |
| Flammability                                | Typical Value (English) | Typical Value (SI) | Test Method |
| Oxygen Index                                | 24 %                    | 24 %               | ASTM D2863  |

### 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       | 345 to 355 °F           | 174 to 179 °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)