



# Geon™ Vinyl Flexible R242AE

## 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              | • Good Adhesion                            | • Low Gloss                                |                 |
| Uses                  | • Construction Applications<br>• Furniture | • Hose<br>• Profiles                       | • Tubing        |
| Forms                 | • Pellets                                  |  |                 |
| Processing Method     | • Coextrusion<br>• Extrusion               | • Injection Molding<br>• Profile Extrusion |                 |

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

| Physical                                | Typical Value (English) | Typical Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| Specific Gravity                        | 1.37                    | 1.37               | ASTM D792   |
| Mechanical                              | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength <sup>2</sup> (Break)   | 2000 psi                | 13.8 MPa           | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break) | 350 %                   | 350 %              | ASTM D638   |
| Hardness                                | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness (Shore A, 15 sec)    | 70                      | 70                 | ASTM D2240  |
| Thermal                                 | Typical Value (English) | Typical Value (SI) | Test Method |
| Brittleness Temperature                 | -11.0 °F                | -23.9 °C           | ASTM D746   |
| Flammability                            | Typical Value (English) | Typical Value (SI) | Test Method |
| Oxygen Index (0.125 in (3.18 mm))       | 23 %                    | 23 %               | ASTM D2863  |

### Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Processing (Melt) Temp | 365 to 385 °F           | 185 to 196 °C      |
| Extrusion              | Typical Value (English) | Typical Value (SI) |
| Melt Temperature       | 340 to 355 °F           | 171 to 179 °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)

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