



# Geon™ Vinyl Rigid Extrusion LR620 white 1046

## Rigid Polyvinyl Chloride

### Key Characteristics

| General               |                                          |                             |                 |
|-----------------------|------------------------------------------|-----------------------------|-----------------|
| Material Status       | • Commercial: Active                     |                             |                 |
| Regional Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Recycled Content      | • Yes                                    |                             |                 |
| Features              | • General Purpose                        |                             |                 |
| Uses                  | • Building Materials                     | • Profiles                  |                 |
| Forms                 | • Cube                                   |                             |                 |

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

| Physical                                               | Typical Value (English) | Typical Value (SI) | Test Method |
|--------------------------------------------------------|-------------------------|--------------------|-------------|
| Density / Specific Gravity                             | 1.46                    | 1.46               | ASTM D792   |
| Mechanical                                             | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Modulus <sup>2</sup>                           | 437000 psi              | 3010 MPa           | ASTM D638   |
| Tensile Strength <sup>2</sup> (Yield)                  | 5900 psi                | 40.7 MPa           | ASTM D638   |
| Flexural Modulus <sup>3</sup>                          | 352000 psi              | 2430 MPa           | ASTM D790   |
| Flexural Strength <sup>3</sup> (Yield)                 | 9630 psi                | 66.4 MPa           | ASTM D790   |
| Impact                                                 | Typical Value (English) | Typical Value (SI) | Test Method |
| Notched Izod Impact                                    |                         |                    | ASTM D256A  |
| 73°F (23°C), 0.125 in (3.18 mm),<br>Compression Molded | 3.0 ft-lb/in            | 160 J/m            |             |
| Drop Impact Resistance                                 |                         |                    | ASTM D4226  |
| -- <sup>4</sup>                                        | 1.44 in-lb/mil          | 64.1 J/cm          |             |
| -- <sup>5</sup>                                        | 1.78 in-lb/mil          | 79.2 J/cm          |             |
| Hardness                                               | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness (Shore D, 15 sec)                   | 80                      | 80                 | ASTM D2240  |
| Thermal                                                | Typical Value (English) | Typical Value (SI) | Test Method |
| Deflection Temperature Under Load                      |                         |                    | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed                          | 170 °F                  | 76.4 °C            |             |
| Deflection Temperature Under Load                      |                         |                    | ASTM D648   |
| 66 psi (0.45 MPa), Annealed                            | 173 °F                  | 78.5 °C            |             |
| Deflection Temperature Under Load                      |                         |                    | ASTM D648   |
| 264 psi (1.8 MPa), Unannealed                          | 163 °F                  | 72.7 °C            |             |
| Deflection Temperature Under Load                      |                         |                    | ASTM D648   |
| 264 psi (1.8 MPa), Annealed                            | 170 °F                  | 76.6 °C            |             |
| CLTE - Flow                                            | 3.5E-5 in/in/°F         | 6.3E-5 cm/cm/°C    | ASTM D696   |

### Notes

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

<sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)

<sup>3</sup> 0.50 in/min (13 mm/min)

<sup>4</sup> Procedure A

<sup>5</sup> Procedure B