



# Geon™ Vinyl Dry Blend E4910 WHITE 1777

## Rigid Polyvinyl Chloride

### Key Characteristics

| General               |                                          |                             |                 |
|-----------------------|------------------------------------------|-----------------------------|-----------------|
| Material Status       | • Commercial: Active                     |                             |                 |
| Regional Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Features              | • High Gloss                             |                             |                 |
| Uses                  | • Industrial Applications                |                             |                 |
| Forms                 | • Powder                                 |                             |                 |
| Processing Method     | • Extrusion                              | • Sheet Extrusion           |                 |

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

| Physical                                        | Typical Value (English) | Typical Value (SI) | Test Method |
|-------------------------------------------------|-------------------------|--------------------|-------------|
| Density / Specific Gravity                      | 1.54                    | 1.54               | ASTM D792   |
| PVC Cell Classification                         | 13353                   | 13353              | ASTM D1784  |
| Mechanical                                      | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Modulus <sup>2</sup>                    | 403000 psi              | 2780 MPa           | ASTM D638   |
| Tensile Strength <sup>2</sup> (Yield)           | 6930 psi                | 47.8 MPa           | ASTM D638   |
| Flexural Modulus <sup>3</sup>                   | 457000 psi              | 3150 MPa           | ASTM D790   |
| Flexural Strength <sup>3</sup>                  | 12800 psi               | 88.3 MPa           | ASTM D790   |
| Impact                                          | Typical Value (English) | Typical Value (SI) | Test Method |
| Notched Izod Impact                             |                         |                    | ASTM D256   |
| 73°F (23°C), 0.125 in (3.18 mm)                 | 2.3 ft-lb/in            | 120 J/m            |             |
| Hardness                                        | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness (Shore D, 15 sec)            | 79                      | 79                 | ASTM D2240  |
| Thermal                                         | Typical Value (English) | Typical Value (SI) | Test Method |
| Deflection Temperature Under Load               |                         |                    | ASTM D648A  |
| 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) | 163 °F                  | 73.0 °C            |             |
| Deflection Temperature Under Load               |                         |                    | ASTM D648A  |
| 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm) | 156 °F                  | 69.0 °C            |             |

### Processing Information

| Extrusion        | Typical Value (English) | Typical Value (SI) |
|------------------|-------------------------|--------------------|
| Melt Temperature | 370 to 392 °F           | 188 to 200 °C      |

### 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)