

# Geon™ Vinyl Rigid Extrusion L7100

Rigid Polyvinyl Chloride

PolyOne Corporation

## Message:

Geon L7100 is recommended for whites and light pastel colors only. Not recommended for horizontal applications such as railing and decking except in white.

| General Information                            |                          |                   |             |
|------------------------------------------------|--------------------------|-------------------|-------------|
| Features                                       | Good weather resistance  |                   |             |
|                                                | Medium impact resistance |                   |             |
| Uses                                           | Outdoor application      |                   |             |
|                                                | Profile                  |                   |             |
| Forms                                          | Cube                     |                   |             |
| Processing Method                              | Extrusion                |                   |             |
| Physical                                       | Nominal Value            | Unit              | Test Method |
| Specific Gravity                               | 1.46                     | g/cm <sup>3</sup> | ASTM D792   |
| PVC Cell Classification                        | 15354                    |                   | ASTM D1784  |
| Hardness                                       | Nominal Value            | Unit              | Test Method |
| Durometer Hardness (Shore D, 15 sec)           | 73                       |                   | ASTM D2240  |
| Mechanical                                     | Nominal Value            | Unit              | Test Method |
| Tensile Modulus <sup>1</sup>                   | 2780                     | MPa               | ASTM D638   |
| Tensile Strength <sup>2</sup> (Yield)          | 44.6                     | MPa               | ASTM D638   |
| Flexural Modulus                               | 3170                     | MPa               | ASTM D790   |
| Flexural Strength                              | 81.3                     | MPa               | ASTM D790   |
| Impact                                         | Nominal Value            | Unit              | Test Method |
| Notched Izod Impact                            |                          |                   | ASTM D256A  |
| 23°C, 3.18mm, molded <sup>3</sup>              | 130                      | J/m               | ASTM D256A  |
| 23°C, 3.18mm, molded <sup>4</sup>              | 570 - 810                | J/m               | ASTM D256A  |
| Drop Impact Resistance                         |                          |                   | ASTM D4226  |
| 23°C                                           | 75.2 - 77.4              | J/cm              | ASTM D4226  |
| 23°C                                           | 77.0 - 79.2              | J/cm              | ASTM D4226  |
| 23°C, 2.03 mm                                  | 74.3                     | J/cm              | ASTM D4226  |
| 23°C, 2.03 mm                                  | 111                      | J/cm              | ASTM D4226  |
| Thermal                                        | Nominal Value            | Unit              | Test Method |
| Deflection Temperature Under Load              |                          |                   | ASTM D648   |
| 0.45 MPa, annealed, 3.18mm <sup>5</sup>        | 75.2                     | °C                | ASTM D648   |
| 0.45 MPa, annealed, 3.18mm <sup>6</sup>        | 77.6                     | °C                | ASTM D648   |
| 1.8 MPa, annealed, 3.18mm, molded <sup>7</sup> | 72.3                     | °C                | ASTM D648   |

|                                                |                                                                                                     |          |           |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------|-----------|
| 1.8 MPa, annealed, 3.18mm, molded <sup>8</sup> | 75.4                                                                                                | °C       | ASTM D648 |
| CLTE - Flow                                    | 5.8E-5                                                                                              | cm/cm/°C | ASTM D696 |
| Additional Information                         | Nominal Value                                                                                       |          |           |
| Ease of Sizing                                 | Acceptable                                                                                          |          |           |
| 注释:物理属性基于L7005 tan 3210 样品.                    |                                                                                                     |          |           |
| Extrusion                                      | Nominal Value                                                                                       | Unit     |           |
| Melt Temperature                               | 182 - 193                                                                                           | °C       |           |
| NOTE                                           |                                                                                                     |          |           |
| 1.                                             | Type 1, 5.1 mm/min                                                                                  |          |           |
| 2.                                             | Type 1, 5.1 mm/min                                                                                  |          |           |
| 3.                                             | Physical property based on commercial production sample.<br>Compression molding of extruded strips. |          |           |
| 4.                                             | Physical property based on lab scale production sample.                                             |          |           |
| 5.                                             | Annealed at 50 deg.C                                                                                |          |           |
| 6.                                             | Annealed at 60 deg.C                                                                                |          |           |
| 7.                                             | Annealed at 50 deg.C                                                                                |          |           |
| 8.                                             | Annealed at 60 deg.C                                                                                |          |           |

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