

# Geon™ Vinyl Rigid Extrusion 87548

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

A transparent PVC profile compound, with inherent "water clear" optical characteristics.

| General Information                             |                         |                   |             |
|-------------------------------------------------|-------------------------|-------------------|-------------|
| UL YellowCard                                   | E41877-100912864        |                   |             |
| Features                                        | High Impact Resistance  |                   |             |
| Uses                                            | Profiles                |                   |             |
| Appearance                                      | Clear/Transparent       |                   |             |
| Forms                                           | Pellets                 |                   |             |
| Processing Method                               | Extrusion               |                   |             |
| Physical                                        | Nominal Value           | Unit              | Test Method |
| Specific Gravity                                | 1.33                    | g/cm <sup>3</sup> | ASTM D792   |
| Hardness                                        | Nominal Value           | Unit              | Test Method |
| Durometer Hardness (Shore D, 15 sec)            | 82                      |                   | ASTM D2240  |
| Mechanical                                      | Nominal Value           | Unit              | Test Method |
| Tensile Modulus <sup>1</sup>                    | 2790                    | MPa               | ASTM D638   |
| Tensile Strength <sup>2</sup> (Yield)           | 53.4                    | MPa               | ASTM D638   |
| Flexural Modulus                                | 2840                    | MPa               | ASTM D790   |
| Flexural Strength                               | 88.5                    | MPa               | ASTM D790   |
| Impact                                          | Nominal Value           | Unit              | Test Method |
| Notched Izod Impact                             |                         |                   | ASTM D256A  |
| 23°C, 3.18 mm, Injection Molded                 | 1100                    | J/m               |             |
| Across Flow : 23°C, 3.18 mm, Compression Molded | 570                     | J/m               |             |
| Flow : 23°C, 3.18 mm, Compression Molded        | 140                     | J/m               |             |
| Drop Impact Resistance                          |                         |                   | ASTM D4226  |
| 23°C <sup>3</sup>                               | 52.0                    | J/cm              |             |
| 23°C <sup>4</sup>                               | 173                     | J/cm              |             |
| Extrusion                                       | Nominal Value           | Unit              |             |
| Melt Temperature                                | 182 to 193              | °C                |             |
| NOTE                                            |                         |                   |             |
| 1.                                              | Type I, 5.1 mm/min      |                   |             |
| 2.                                              | Type I, 5.1 mm/min      |                   |             |
| 3.                                              | Procedure A, C.125 Dart |                   |             |
| 4.                                              | Procedure B, C.125 Dart |                   |             |

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