

# Geon™ Vinyl Flexible A80U0

Flexible Polyvinyl Chloride

PolyOne Corporation

Message:

Interior applications.

| General Information                     |                   |                   |             |
|-----------------------------------------|-------------------|-------------------|-------------|
| Features                                | General Purpose   |                   |             |
|                                         | High Gloss        |                   |             |
| Uses                                    | General Purpose   |                   |             |
| Appearance                              | Clear/Transparent |                   |             |
| Forms                                   | Pellets           |                   |             |
| Processing Method                       | Extrusion         |                   |             |
|                                         | Injection Molding |                   |             |
| Physical                                | Nominal Value     | Unit              | Test Method |
| Specific Gravity                        | 1.20              | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow                | 1.5 to 1.9        | %                 | ASTM D955   |
| Hardness                                | Nominal Value     | Unit              | Test Method |
| Durometer Hardness                      |                   |                   | ASTM D2240  |
| Shore A                                 | 80                |                   |             |
| Shore A, 15 sec                         | 70                |                   |             |
| Mechanical                              | Nominal Value     | Unit              | Test Method |
| Tensile Strength <sup>1</sup>           |                   |                   | ASTM D638   |
| Break                                   | 14.1              | MPa               |             |
| 100% Strain                             | 6.21              | MPa               |             |
| Tensile Elongation <sup>2</sup> (Break) | 450               | %                 | ASTM D638   |
| Elastomers                              | Nominal Value     | Unit              | Test Method |
| Tear Strength <sup>3</sup>              | 57.8              | kN/m              | ASTM D624   |
| Compression Set (23°C, 22 hr)           | 25                | %                 | ASTM D395   |
| Clash-Berg Modulus                      |                   |                   | ASTM D1043  |
| --                                      | 176               | MPa               |             |
| -42°C                                   | 310               | MPa               |             |
| Thermal                                 | Nominal Value     | Unit              | Test Method |
| Brittleness Temperature                 | -45.0             | °C                | ASTM D746   |
| Optical                                 | Nominal Value     | Unit              | Test Method |
| Transmittance <sup>4</sup> (1910 µm)    | 82.0              | %                 | ASTM D1003  |
| Haze (1910 µm)                          | 4.0               | %                 | ASTM D1003  |
| Injection                               | Nominal Value     | Unit              |             |

|                        |                   |      |
|------------------------|-------------------|------|
| Processing (Melt) Temp | 193 to 204        | °C   |
| Extrusion              | Nominal Value     | Unit |
| Melt Temperature       | 174 to 179        | °C   |
| NOTE                   |                   |      |
| 1.                     | 510 mm/min        |      |
| 2.                     | 510 mm/min        |      |
| 3.                     | Die C, 510 mm/min |      |
| 4.                     | CIE Illuminant C  |      |

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