

# GEON® Flex C80B1 WHITE 1473

GEON Performance Solutions - Flexible Polyvinyl Chloride

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## General Information

| General           |                                          |                             |                     |
|-------------------|------------------------------------------|-----------------------------|---------------------|
| Material Status   | • Commercial: Active                     |                             |                     |
| Availability      | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America     |
| Additive          | • Biocide <sup>1</sup>                   |                             |                     |
| Uses              | • Protective Coverings                   |                             |                     |
| Agency Ratings    | • UL 94 HB                               |                             |                     |
| Forms             | • Pellets                                |                             |                     |
| Processing Method | • Coextrusion                            | • Extrusion                 | • Injection Molding |

## ASTM & ISO Properties <sup>2</sup>

| Physical                                | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------------------|-------------------------|--------------------|-------------|
| Density / Specific Gravity              | 1.38                    | 1.38               | ASTM D792   |
| Mechanical                              | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Strength <sup>3</sup>           |                         |                    | ASTM D638   |
| Break                                   | 1640 psi                | 11.3 MPa           |             |
| 100% Strain                             | 871 psi                 | 6.01 MPa           |             |
| Tensile Elongation <sup>3</sup> (Break) | 310 %                   | 310 %              | ASTM D638   |
| Elastomers                              | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Compression Set (73°F (23°C), 22 hr)    | 25 %                    | 25 %               | ASTM D395   |
| Hardness                                | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Durometer Hardness                      |                         |                    | ASTM D2240  |
| Shore A <sup>4</sup>                    | 79                      | 79                 |             |
| Shore A, 15 sec                         | 70                      | 70                 |             |
| Thermal                                 | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Brittleness Temperature                 | -39.5 °F                | -39.7 °C           | ASTM D746   |

## Processing Information

| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Processing (Melt) Temp | 380 to 400 °F           | 193 to 204 °C      |
| Extrusion              | Nominal Value (English) | Nominal Value (SI) |
| Melt Temperature       | 345 to 355 °F           | 174 to 179 °C      |

## Notes

<sup>1</sup> Mildew Resistance: It passes ASTM G-21 -96Fungal Growth Test.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> Type IV, 20 in/min (510 mm/min)

<sup>4</sup> This compound was tested for Thermal Conductivity and Thermal Resistance under ASTM C 177.

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