



## Geon™ CPVC EC950

### Chlorinated Polyvinyl Chloride

#### Key Characteristics

##### Product Description

The Geon EC950 CPVC is an extrusion compound for Industrial Pipe applications where enhanced resistance at elevated temperatures is needed. It is listed under NSF Std 14 and 61. Geon EC950 demonstrates ease of processing and excellent thermal stability.

##### General

|                       |                                          |                             |                 |
|-----------------------|------------------------------------------|-----------------------------|-----------------|
| Material Status       | • Commercial: Active                     |                             |                 |
| Regional Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Uses                  | • Industrial Applications                | • Piping                    |                 |
| Agency Ratings        | • NSF STD-14                             | • NSF STD-61                | • UL 94         |
| Forms                 | • Powder                                 |                             |                 |
| Processing Method     | • Pipe Extrusion                         |                             |                 |

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

| Physical                              | Typical Value (English) | Typical Value (SI) | Test Method |
|---------------------------------------|-------------------------|--------------------|-------------|
| Specific Gravity                      | 1.51                    | 1.51               | ASTM D792   |
| PVC Cell Classification               | 23447                   | 23447              | ASTM D1784  |
| Mechanical                            | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Modulus (73°F (23°C))         | 381000 psi              | 2630 MPa           | ASTM D638   |
| Tensile Strength (Yield, 73°F (23°C)) | 7760 psi                | 53.5 MPa           | ASTM D638   |
| Flexural Modulus                      | 396000 psi              | 2730 MPa           | ASTM D790   |
| Flexural Strength (Yield)             | 13800 psi               | 95.1 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)       | 2.1 ft-lb/in            | 110 J/m            |             |
| Hardness                              | Typical Value (English) | Typical Value (SI) | Test Method |
| Rockwell Hardness (R-Scale)           | 117                     | 117                | ASTM D785   |
| Durometer Hardness (Shore D)          | 80                      | 80                 | ASTM D2240  |
| Thermal                               | Typical Value (English) | Typical Value (SI) | Test Method |
| Deflection Temperature Under Load     |                         |                    | ASTM D648   |
| 264 psi (1.8 MPa), Annealed           | 230 °F                  | 110 °C             |             |
| Flammability                          | Typical Value (English) | Typical Value (SI) | Test Method |
| Flame Rating                          | V-0                     | V-0                | UL 94       |

#### Processing Information

| Extrusion        | Typical Value (English) | Typical Value (SI) |
|------------------|-------------------------|--------------------|
| Melt Temperature | 388 to 410 °F           | 198 to 210 °C      |

#### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

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