

Geon™ CPVC EC900

Chlorinated Polyvinyl Chloride

PolyOne Corporation

Message:

The Geon EC900 CPVC is an extrusion compound for CTS Pipe applications where enhanced resistance at elevated temperatures is needed. It is listed under NSF Std 14 and 61. Geon EC900 demonstrates ease of processing and excellent thermal stability.

| General Information | | | |
|---|--------------------|-------------------|-------------|
| Uses | Building Materials | | |
| | Piping | | |
| | Plumbing Parts | | |
| Agency Ratings | NSF 14 | | |
| | NSF 61 | | |
| | UL 94 | | |
| Forms | Powder | | |
| Processing Method | Extrusion | | |
| | Pipe Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.51 | g/cm ³ | ASTM D792 |
| PVC Cell Classification | 23447 | | ASTM D1784 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 117 | | ASTM D785 |
| Durometer Hardness (Shore D) | 84 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus (23°C) | 2590 | MPa | ASTM D638 |
| Tensile Strength (Yield, 23°C) | 49.0 | MPa | ASTM D638 |
| Flexural Modulus | 2700 | MPa | ASTM D790 |
| Flexural Strength (Yield) | 91.7 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 450 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Annealed) | 110 | °C | ASTM D648 |
| Flammability | Nominal Value | | Test Method |
| Flame Rating | V-0 | | UL 94 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 198 to 210 | °C | |

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