Geon™ CPVC EC900

Chlorinated Polyvinyl Chloride

Key Characteristics

Product Description

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			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Building Materials	• Piping	• Plumbing Parts
Agency Ratings	• NSF STD-14	• NSF STD-61	• UL 94
Forms	• Powder		
Processing Method	• Extrusion	• Pipe Extrusion	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / 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))	376000 psi	2590 MPa	ASTM D638
Tensile Strength (Yield, 73°F (23°C))	7110 psi	49.0 MPa	ASTM D638
Flexural Modulus	391000 psi	2700 MPa	ASTM D790
Flexural Strength (Yield)	13300 psi	91.7 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)	8.5 ft·lb/in	450 J/m	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Rockwell Hardness (R-Scale)	117	117	ASTM D785
Durometer Hardness (Shore D)	84	84	ASTM D2240
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed	229 °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

[1] Typical values are not to be construed as specifications.