



# Geon™ CPVC MC100

## Chlorinated Polyvinyl Chloride

### Key Characteristics

#### Product Description

Geon MC100 CPVC is an Injection molding fitting compound. It is listed under NSF Std 14 and 61 and meets or exceeds ASTM D-1784 Cell Class 23447. MC100 is designed for CTS applications where enhanced resistance at elevated temperatures is needed. MC100 demonstrates ease of processing with excellent thermal stability.

#### General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Fittings		
Agency Ratings	• NSF STD-14	• NSF STD-61	
Forms	• Pellets		
Processing Method	• Injection Molding		

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

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 <sup>2</sup>	374000 psi	2580 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	7750 psi	53.4 MPa	ASTM D638
Flexural Modulus	400000 psi	2760 MPa	ASTM D790
Flexural Strength	13500 psi	93.1 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Injection Molded	5.8 ft-lb/in	310 J/m	ASTM D256A
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Rockwell Hardness (R-Scale)	119	119	ASTM D785
Durometer Hardness (Shore D)	84	84	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	217 °F	103 °C	ASTM D648

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	160 °F	71 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	390 to 405 °F	199 to 207 °C

#### Notes

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

<sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)