

Geon™ CPVC MC100

Chlorinated Polyvinyl Chloride

PolyOne Corporation

Message:

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 Information			
Uses	Fittings		
Agency Ratings	NSF 14		
	NSF 61		
Forms	Pellets		
Processing Method	Injection Molding		
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)	119		ASTM D785
Durometer Hardness (Shore D)	84		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2580	MPa	ASTM D638
Tensile Strength ² (Yield)	53.4	MPa	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	93.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	310	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, 3.18 mm)	103	°C	ASTM D648
Injection	Nominal Value	Unit	
Processing (Melt) Temp	199 to 207	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		

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