Geon™ CPVC MC200

Chlorinated Polyvinyl Chloride

Key Characteristics

Product Description			
Geon MC200 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. MC200 is designed for IPS applications where enhanced resistance at elevated temperatures is needed. MC200 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 [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.48	1.48	ASTM D792
PVC Cell Classification	23447	23447	ASTM D1784
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	420000 psi	2900 MPa	ASTM D638
Tensile Strength [2] (Yield)	7900 psi	54.5 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			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	3.0 ft·lb/in	160 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, 0.125 in (3.18 mm)	221 °F	105 °C	

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

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

[2] Type I, 0.20 in/min (5.1 mm/min)