

PolyOne Geon™ CPVC MC100 Polyvinyl Chloride, Chlorinated (CPVC)

Category : Polymer , Thermoplastic , Vinyl (PVC) , Chlorinated PVC (CPVC)

Material Notes:

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. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-CPVC-MC100-Polyvinyl-Chloride-Chlorinated-CPVC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Hardness, Shore D	84	84	ASTM D2240
Tensile Strength, Yield	53.4 MPa	7750 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.58 GPa	374 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	93.1 MPa	13500 psi	ASTM D790
Flexural Modulus	2.76 GPa	400 ksi	ASTM D790
Izod Impact, Notched	3.10 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	5.81 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	103 °C @Thickness 3.18 mm	217 °F @Thickness 0.125 in	Annealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	199 - 207 °C	390 - 405 °F	

Descriptive Properties	Value	Comments
Agency Ratings	NSF 14	
	NSF 61	
Forms	Pellets	

Descriptive Properties	Value	Comments
Generic Name	Polyvinyl Chloride, Chlorinated (CPVC)	
Processing Method	Injection Molding	
PVC Cell Classification	23447	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Fittings	

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