



Geon™ CPVC MC550

Chlorinated Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Outdoor Applications		
Agency Ratings	• UL 94 ¹		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties²

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.53	1.53	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ³ (73°F (23°C))	366000 psi	2520 MPa	ASTM D638
Tensile Strength (Yield, 73°F (23°C))	7060 psi	48.7 MPa	ASTM D638
Flexural Modulus	401000 psi	2760 MPa	ASTM D790
Flexural Strength (Yield)	12300 psi	84.8 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)	2.4 ft·lb/in	130 J/m	ASTM D256
Notched Izod Impact (Area) 32°F (0°C), 0.125 in (3.18 mm)	1.10 ft·lb/in ²	2.31 kJ/m ²	ASTM D256
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Rockwell Hardness (R-Scale)	111	111	ASTM D785
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load ⁴ 66 psi (0.45 MPa), Annealed	207 °F	97.0 °C	ASTM D648
Deflection Temperature Under Load ⁵ 264 psi (1.8 MPa), Annealed	196 °F	91.0 °C	ASTM D648
Vicat Softening Temperature ⁶	208 °F	98.0 °C	ASTM D1525

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	392 to 405 °F	200 to 207 °C

Notes

¹ Pass V-0 - Not Listed

² Typical values are not to be construed as specifications.

³ Yield

⁴ 97 C.

⁵ 91 C.

⁶ Method A
98 degr. C.



Beyond Polymers.

Better Business Solutions. SM