



# Geon™ Vinyl Flexible C8500

## Flexible Polyvinyl Chloride

### Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• General Purpose • Medium Gloss		
Uses	• General Purpose		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.42	1.42	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup> (100% Strain)	1050 psi	7.24 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Break)	1900 psi	13.1 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	360 %	360 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength <sup>3</sup>	320 lbf/in	56.0 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	22 %	22 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	49400 psi	341 MPa	
-29°F (-34°C)	45000 psi	310 MPa	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	85	85	
Shore A, 15 sec	78	78	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-24.0 °F	-31.1 °C	ASTM D746

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	380 to 400 °F	193 to 204 °C
Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	345 to 355 °F	174 to 179 °C

### Notes

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

<sup>2</sup> 20 in/min (510 mm/min)

<sup>3</sup> Die C, 20 in/min (510 mm/min)

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