



# Geon™ Vinyl Flexible C8009

## 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	• Medical/Healthcare Applications		
Forms	• Pellets		
Processing Method	• Coextrusion	• Extrusion	• Injection Molding

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.40	1.40	ASTM D792
Molding Shrinkage - Flow	0.017 to 0.021 in/in	1.7 to 2.1 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup> (100% Strain)	850 psi	5.86 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Break)	1700 psi	11.7 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	380 %	380 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength <sup>3</sup>	250 lbf/in	43.8 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	23 %	23 %	ASTM D395
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	80	80	
Shore A, 15 sec	76	76	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-30.0 °F	-34.4 °C	ASTM D746

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	350 to 380 °F	177 to 193 °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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