



# Geon™ Vinyl Packaging 2199

## Rigid Polyvinyl Chloride

### Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Food Contact Acceptable • High Gloss	• High Impact Resistance • Low Temperature Impact Resistance	
Uses	• Bottles	• Packaging	
Agency Ratings	• FDA Food Contact, Unspecified Rating		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Blow Molding		

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.31	1.31	ASTM D792
Density	0.801 g/cm <sup>3</sup>	0.801 g/cm <sup>3</sup>	ASTM D1505
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>2</sup>	321000 psi	2210 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	6200 psi	42.7 MPa	ASTM D638
Flexural Modulus	347000 psi	2390 MPa	ASTM D790
Flexural Strength	10900 psi	75.2 MPa	ASTM D790
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	81	81	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	148 °F	64.4 °C	

### Notes

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

<sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)

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