



# Geon™ BIO HC5175G

## Flexible Polyvinyl Chloride

### Key Characteristics

Product Description	
A flexible vinyl formulated to achieve a minimum level of 25% bio-based content and classified as a PolyOne Sustainable Solution	
General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• Non-Phthalate Plasticizer • Renewable Resource Content
Uses	• Connectors • Medical/Healthcare Applications
Forms	• Pellets
Processing Method	• Extrusion • Injection Molding

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.20	1.20	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup> (100% Strain)	660 psi	4.55 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Break)	1800 psi	12.4 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	370 %	370 %	ASTM D638
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 15 sec)	75	75	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-23.0 °F	-30.6 °C	ASTM D746

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	370 to 380 °F	188 to 193 °C
Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	360 to 370 °F	182 to 188 °C

### Notes

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

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

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