



Geon™ BIO HC5185G

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 ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.22	1.22	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	1350 psi	9.31 MPa	ASTM D638
Tensile Strength ² (Break)	2350 psi	16.2 MPa	ASTM D638
Tensile Elongation ² (Break)	350 %	350 %	ASTM D638
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 15 sec)	85	85	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-20.0 °F	-28.9 °C	ASTM D746

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	380 to 390 °F	193 to 199 °C
Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	365 to 375 °F	185 to 191 °C

Notes

¹ Typical values are not to be construed as specifications.

² 20 in/min (510 mm/min)

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