



Geon™ BIO HC5165G

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
Density / Specific Gravity	1.19	1.19	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	580 psi	4.00 MPa	ASTM D638
Tensile Strength ² (Break)	1450 psi	10.0 MPa	ASTM D638
Tensile Elongation ² (Break)	390 %	390 %	ASTM D638
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 15 sec)	65	65	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-28.0 °F	-33.3 °C	ASTM D746

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	360 to 370 °F	182 to 188 °C
Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	350 to 360 °F	177 to 182 °C

Notes

¹ Typical values are not to be construed as specifications.

² 20 in/min (510 mm/min)