Geon™ BIO HC5155

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	1.16	1.16	ASTM D792
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2] (100% Strain)	480 psi	3.31 MPa	ASTM D638
Tensile Strength [2] (Break)	1250 psi	8.62 MPa	ASTM D638
Tensile Elongation [2] (Break)	400 %	400 %	ASTM D638
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 15 sec)	55	55	ASTM D2240
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 360 °F	177 to 182 °C
Extrusion	**Typical Value (English)**	**Typical Value (SI)**
Melt Temperature	340 to 350 °F	171 to 177 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] 20 in/min (510 mm/min)