



Geon™ HC 3180G

Flexible Polyvinyl Chloride

Key Characteristics

Product Description

Geon HC 3180G is a non-phthalate, gamma-stable flexible vinyl compound made from FDA sanctioned ingredients. HC 3180G can be used for extrusion and injection molding healthcare applications.

This product, with color designation as "Clear 9883", has obtained Certification under Class VI U.S. Pharmacopeia for systemic toxicity and intractaneous studies.

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• BPA Free • Ethylene Oxide Sterilizable • Good Processability	• High Clarity • Non-Phthalate Plasticizer • Radiation (Gamma) Resistant	• Radiation Sterilizable
Uses	• Connectors • Disposable Hospital Goods • Hospital Goods	• Medical Devices • Medical/Healthcare Applications • Personal Care	• Tubing
Agency Ratings	• FDA Unspecified Rating		
Appearance	• Clear - Blue Tint		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.23	1.23	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	1140 psi	7.86 MPa	ASTM D638
Tensile Strength ² (Break)	2700 psi	18.6 MPa	ASTM D638
Tensile Elongation ² (Break)	440 %	440 %	ASTM D638
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 15 sec)	80	80	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-13.0 °F	-25.0 °C	ASTM D746

Additional Information

NOTE: All ingredients used in the formulation of this compound are listed in the United States FDA Code of Federal Regulations, Title 21. The only restriction is that the plasticizer is "For foods of high water content only". This statement is only an overview of the FDA listings for this product. It is the customer's responsibility to ensure that the compound is suitable for its intended application.

This product is not recommended for long-term storage of blood or blood components. Please contact PolyOne for more information.

Notes

¹ Typical values are not to be construed as specifications.

² Type IV, 20 in/min (510 mm/min)

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CONTACT INFORMATION**Americas**

United States - Avon Lake
+1 440 930 1000

United States - McHenry
+1 815 385 8500

Asia

China - Guangzhou
+86 20 8732 7260

China - Shenzhen
+86 755 2969 2888

China - Suzhou
+86 512 6823 24 38

China - Suzhou
+86 512 6265 2600

Hong Kong -
+852 2690 5332

Taiwan - Yonghe City,
+886 9396 99740, +886 2929 1849

Europe

Germany - Gaggenau
+49 7225 6802 0

Spain - Barbastro (Huesca)
+34 974 310 314



Beyond Polymers.

Better Business Solutions.™

www.polyone.com

PolyOne Americas

33587 Walker Road
Avon Lake, Ohio 44012
United States
+1 440 930 1000
+1 866 POLYONE

PolyOne Asia

No. 88 Guoshoujing Road
Z.J Hi-tech Park, Pudong
Shanghai, 201203, China
+86 21 5080 1188

PolyOne Europe

6 Giällewee
+352 269 050 35

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