

## PolyOne Geon™ HC 2180G Polyvinyl Chloride, Flexible (PVC, Flexible)

Category : Polymer , Thermoplastic , Vinyl (PVC)

### Material Notes:

Geon HC 2180G is a 80 Shore A non-phthalate, gamma-stable flexible vinyl compound made from FDA sanctioned ingredients. HC 2180G can be used for extrusion and injection molding healthcare applications. 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. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Geon-HC-2180G-Polyvinyl-Chloride-Flexible-PVC-Flexible.php](http://www.lookpolymers.com/polymer_PolyOne-Geon-HC-2180G-Polyvinyl-Chloride-Flexible-PVC-Flexible.php)

| Physical Properties | Metric    | English   | Comments  |
|---------------------|-----------|-----------|-----------|
| Specific Gravity    | 1.26 g/cc | 1.26 g/cc | ASTM D792 |

| Mechanical Properties     | Metric                    | English                   | Comments                       |
|---------------------------|---------------------------|---------------------------|--------------------------------|
| Hardness, Shore A         | 80                        | 80                        | 15 sec; ASTM D2240             |
| Tensile Strength at Break | 18.6 MPa                  | 2700 psi                  | Type IV, 510 mm/min; ASTM D638 |
| Tensile Strength          | 7.86 MPa<br>@Strain 100 % | 1140 psi<br>@Strain 100 % | Type IV, 510 mm/min; ASTM D638 |
| Elongation at Break       | 440 %                     | 440 %                     | Type IV, 510 mm/min; ASTM D638 |

| Thermal Properties      | Metric   | English  | Comments  |
|-------------------------|----------|----------|-----------|
| Brittleness Temperature | -25.0 °C | -13.0 °F | ASTM D746 |

| Descriptive Properties | Value                       | Comments |
|------------------------|-----------------------------|----------|
| Agency Ratings         | FDA Unspecified Rating      |          |
| Appearance             | Clear - Blue Tint           |          |
| Features               | BPA Free                    |          |
|                        | Ethylene Oxide Sterilizable |          |
|                        | Good Processability         |          |
|                        | High Clarity                |          |
|                        | Non-Phthalate Plasticizer   |          |

| Descriptive Properties | Radiation (Gamma) Resistant Value            | Comments |
|------------------------|--|----------|
|                        | Radiation Sterilizable                       |          |
| Forms                  | Pellets                                      |          |
| Generic Material       | PVC, Flexible                                |          |
| Generic Name           | Polyvinyl Chloride, Flexible (PVC, Flexible) |          |
| Processing Method      | Extrusion                                    |          |
|                        | Injection Molding                            |          |
| Regional Availability  | Africa & Middle East                         |          |
|                        | Asia Pacific                                 |          |
|                        | Europe                                       |          |
|                        | North America                                |          |
|                        | South America                                |          |
| Uses                   | Connectors                                   |          |
|                        | Disposable Hospital Goods                    |          |
|                        | Hospital Goods                               |          |
|                        | Medical Appliances                           |          |
|                        | Medical/Healthcare Applications              |          |
|                        | Personal Care                                |          |
|                        | Tubing                                       |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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