



# Geon™ Vinyl Flexible XV3816

## Flexible Polyvinyl Chloride

### Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Food Contact Acceptable • Non-Phthalate Plasticizer		
Uses	• Medical Devices		
Agency Ratings	• CPSIA Compliant • FDA Food Contact, Unspecified Rating	• FDA Unspecified Rating • ISO 10993 Part 5	• USP Class VI
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

### Technical Properties <sup>1</sup>

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 <sup>2</sup> (100% Strain)	1120 psi	7.72 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Break)	2610 psi	18.0 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	430 %	430 %	ASTM D638
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 10 sec)	78	78	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-55.0 °F	-48.3 °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 compound has obtained conformance to Cytotoxicity tests under ISO 10993-5 GUIDELINES when combined to Clear 1756 pigmentation.

#### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> Type IV, 20 in/min (510 mm/min)

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