



Alternative Plasticizer Solutions

Geon™ Non-Phthalate and Geon™
CPSIA-Compliant Compounds

Product Description

Geon™ Non-Phthalate and CPSIA-Compliant Flexible Vinyl Compounds offer alternative solutions for markets and applications affected by state and national legislation as well as changing public perceptions. These non-phthalate and regulatory-compliant compounds offer a wide range of flexibility and excellent performance characteristics. Geon compounds can be injection-molded or extruded, and can be custom formulated to meet specific requirements. Geon Non-Phthalate and Geon CPSIA-Compliant compounds are each classified as a PolyOne Sustainable Solution.

Value Solution

Meet the changing demands of the marketplace

Certain classes of phthalate plasticizers are being regulated by the federal government. In addition, phthalate plasticizers are under attack by consumer groups, who have concerns regarding phthalate's perceived impact on long-term health. In response to these concerns, brand owners are aiming to offer solutions that are compliant with these regulations or eliminate the use of phthalate plasticizers altogether in the manufacture of their products. To achieve the first goal, manufactures need a reliable source of viable alternatives to service their customers.

Several alternative plasticizers available today can respond to this challenge. In all cases, the decision as to which alternative plasticizer should be used requires careful consideration of the specific end product, its requirements and intended use.

As the market-leading manufacturer of vinyl compounds, PolyOne has years of experience in the use of alternative plasticizers. PolyOne has the expertise and knowledge to formulate and manufacture customized vinyl solutions that enable customers to respond to changing market dynamics while continuing to meet their products' performance requirements.

The use of Geon compounds can provide several benefits to manufacturers impacted by CPSIA or other market demands:

- Allows manufacturers to leverage PolyOne's expertise to quickly and confidently respond to these growing concerns, thereby protecting the value of their brand.
- PolyOne's **No Surprises Pledge**SM means the manufacturer will consistently receive materials that meet and perform to their specifications.



Geon™ Non-phthalate Vinyl compounds are formulated without the use of phthalate-based plasticizers. Geon™ CPSIA-compliant compounds meet the requirements of the U.S. Consumer Products Safety Improvement Act (CPSIA). Both are classified as a PolyOne Sustainable Solution*
To learn more, go to www.polyone.com/sustain

*The PolyOne Sustainable Solution certification is awarded to those products or services that meet defined criteria for sustainability in areas such as renew-ability, recycle-ability, reusability, eco-friendly composition, or resource efficiency.

Key Characteristics

Geon™ Non-Phthalate or CPSIA-Compliant compounds are available for all conventional flexible vinyl applications. PolyOne's extensive technical expertise in the formulation of specialty compounds for specific applications can prove invaluable as companies work to determine how to address market demands. The primary features and benefits of these flexible vinyl compounds are:

Geon Non-Phthalate Compounds	Geon CPSIA-Compliant Compounds
Non-phthalate raw materials	CPSIA-compliant raw materials Quality control procedures to minimize contamination and ensure compliance
Broad hardness range (55A through 95A)	Broad hardness range (55A through 95A)
Transparent or opaque colors	Transparent or opaque colors
High gloss, low gloss or matte surface	High gloss, low gloss or matte surface
Excellent chemical resistance	Excellent chemical resistance
Meet codes & regulatory requirements (FDA, USP Class VI, and sterilizable grades available)	Meet codes & regulatory requirements (CPSIA; FDA grades available)
Excellent physical property matrix	Excellent physical property matrix

Markets and End-Use Applications

Geon™ Non-Phthalate and Geon CPSIA-Compliant compounds are an excellent choice for applications including:

Healthcare

Tubing, fluid administration bags, catheters, face masks, and other disposable and non-disposable medical devices; FDA, USP Class VI, and gamma sterilizable grades available

Consumer

Toys, child care articles, children's sports or outdoor equipment, and other items needing to conform to retailer requirements

Packaging

Food, bottle cap seals & gaskets, FDA food grade applications

Appliances

Small appliance gaskets, refrigerator gaskets, blender lids

Building & Construction

Office furniture, wall protection systems, seals and gaskets

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