

## PolyOne Geon™ Vinyl Packaging UV-SORB-1 Polyvinyl Chloride, Rigid (PVC, Rigid)

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Rigid Grade

### Material Notes:

Caution: To be used as an additive only. Bottles produced from blends of OxyClear UV-SORB-1 are specifically designed for use where UV sensitive products are being packaged. Dependent on the base Oxy Compound used, they may be used for either food contact or general purpose applications. Generally, additions of 4% to 10 % by Polymer weight, are recommended in order to comply with FDA

Status. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Geon-Vinyl-Packaging-UV-SORB-1-Polyvinyl-Chloride-Rigid-PVC-Rigid.php](http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Packaging-UV-SORB-1-Polyvinyl-Chloride-Rigid-PVC-Rigid.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Density	0.801 g/cc	0.0289 lb/in <sup>3</sup>	ASTM D1505

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Hardness, Shore D	83	83	ASTM D2240
Tensile Strength, Yield	41.4 MPa	6000 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.69 GPa	390 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	77.9 MPa	11300 psi	ASTM D790
Flexural Modulus	2.62 GPa	380 ksi	ASTM D790
Izod Impact, Notched	12.0 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	22.5 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C @Thickness 3.18 mm	149 °F @Thickness 0.125 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Mold Temperature	202 - 213 °C	396 - 415 °F	Blow Molding

Descriptive Properties	Value	Comments
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<b>Additive</b> Descriptive Properties	<b>UV Stabilizer</b> Value	Comments
Agency Ratings	FDA Food Contact, Unspecified Rating	
Appearance	Clear/Transparent	
Features	Food Contact Acceptable	
	High Gloss	
	High Impact Resistance	
	UV Absorbing	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Blow Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Bottles	
	Packaging	

## Contact Songhan Plastic Technology Co.,Ltd.

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