



Geon™ Vinyl Packaging UV-SORB-1

Rigid Polyvinyl Chloride

Key Characteristics

Product Description

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.

General

Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Additive	• UV Stabilizer
Features	• Food Contact Acceptable • High Gloss • High Impact Resistance • UV Absorbing
Uses	• Bottles • Packaging
Agency Ratings	• FDA Food Contact, Unspecified Rating
Appearance	• Clear/Transparent
Forms	• Pellets
Processing Method	• Blow Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.32	1.32	ASTM D792
Density	0.801 g/cm ³	0.801 g/cm ³	ASTM D1505
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	390000 psi	2690 MPa	ASTM D638
Tensile Strength ² (Yield)	6000 psi	41.4 MPa	ASTM D638
Flexural Modulus	380000 psi	2620 MPa	ASTM D790
Flexural Strength	11300 psi	77.9 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Injection Molded	23 ft·lb/in	1200 J/m	ASTM D256A
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Rockwell Hardness (R-Scale)	100	100	ASTM D785
Durometer Hardness (Shore D)	83	83	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	149 °F	65.0 °C	ASTM D648
Additional Information	Typical Value (English)	Typical Value (SI)	
Blow Molding Temperature	395 to 415 °F	202 to 213 °C	

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)