

Geon™ Vinyl Packaging UV-SORB-1

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

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 Information			
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		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.32	g/cm ³	ASTM D792
--	0.801	g/cm ³	ASTM D1505
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Durometer Hardness (Shore D)	83		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2690	MPa	ASTM D638
Tensile Strength ² (Yield)	41.4	MPa	ASTM D638
Flexural Modulus	2620	MPa	ASTM D790
Flexural Strength	77.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	1200	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	65.0	°C	ASTM D648
Additional Information	Nominal Value	Unit	

Blow Molding Temperature	202 to 213	°C
NOTE		
1.	Type I, 5.1 mm/min	
2.	Type I, 5.1 mm/min	

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