

Geon™ Vinyl Packaging 2188GC

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Packaging 2188GC is a Rigid Polyvinyl Chloride product. It can be processed by blow molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Geon™ Vinyl Packaging 2188GC include bottles, food contact applications and packaging.

Characteristics include:

Food Contact Acceptable

High Gloss

Impact Resistant

General Information			
Features	Food Contact Acceptable		
	High Gloss		
	High Impact Resistance		
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)	105		ASTM D785
Durometer Hardness (Shore D)	79		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2390	MPa	ASTM D638
Tensile Strength ² (Yield)	43.4	MPa	ASTM D638
Flexural Modulus	2580	MPa	ASTM D790
Flexural Strength	77.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	1100	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	59.4	°C	ASTM D648
Optical	Nominal Value	Unit	Test Method

Transmittance		Internal Method
851 μm, 400 nm	81.0	%
851 μm, 700 nm	86.5	%
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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