

Geon™ Vinyl Packaging 2121C

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

A Clear Rigid PVC Compound designed specifically for water bottle applications.

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)	100		ASTM D785
Durometer Hardness (Shore D)	83		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2720	MPa	ASTM D638
Tensile Strength ² (Yield)	41.4	MPa	ASTM D638
Flexural Modulus	2630	MPa	ASTM D790
Flexural Strength	78.4	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
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	199 to 213	°C
NOTE		
1.	Type I, 5.1 mm/min	
2.	Type I, 5.1 mm/min	

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