

# Geon™ BIO RA9000

Flexible Polyvinyl Chloride

PolyOne Corporation

Message:

A flexible vinyl formulated to achieve a minimum level of 25% bio-based content and classified as a PolyOne Sustainable Solution

General Information			
Features	Non-Phthalate Plasticizer		
	Renewable Resource Content		
Uses	Building Materials		
	Consumer Applications		
	Industrial Applications		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	93		
Shore A, 15 sec	85		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Break	19.5	MPa	
100% Strain	12.2	MPa	
Tensile Elongation <sup>2</sup> (Break)	320	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-29.2	°C	ASTM D746
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	25	%	ASTM D2863
Injection	Nominal Value	Unit	
Processing (Melt) Temp	188 to 199	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	171 to 182	°C	
NOTE			
1.	510 mm/min		
2.	510 mm/min		

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