

# Geon™ BIO RD9000

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	1.56	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	92		
Shore A, 15 sec	86		

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Break	11.3	MPa	
100% Strain	8.13	MPa	
Tensile Elongation <sup>2</sup> (Break)	270	%	ASTM D638

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-24.7	°C	ASTM D746
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	24	%	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519  
Phone: +86 13424755533  
Email: sales@su-jiao.com  
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

