Geon™ BIO RB9000

Flexible Polyvinyl Chloride

Key Characteristics

Product Description			
A flexible vinyl formulated to achieve a minimum level of 25% bio-based content and classified as a PolyOne Sustainable Solution			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Non-Phthalate Plasticizer	• Renewable Resource Content	
Uses	• Building Materials	• Consumer Applications	• Industrial Applications
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.35	1.35	ASTM D792
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2] (100% Strain)	1650 psi	11.4 MPa	ASTM D638
Tensile Strength [2] (Break)	2650 psi	18.3 MPa	ASTM D638
Tensile Elongation [2] (Break)	350 %	350 %	ASTM D638
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A	93	93	
Shore A, 15 sec	86	86	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Brittleness Temperature	-18.0 °F	-27.8 °C	ASTM D746
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Oxygen Index	24 %	24 %	ASTM D2863

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	370 to 390 °F	188 to 199 °C
Extrusion	**Typical Value (English)**	**Typical Value (SI)**
Melt Temperature	340 to 360 °F	171 to 182 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] 20 in/min (510 mm/min)