



Geon™ Vinyl Flexible C9000

Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• General Purpose	• Medium Gloss	
Uses	• General Purpose	• Lawn and Garden Equipment	• Wheels
Agency Ratings	• NSF STD-51 ¹		
Forms	• Pellets		
Processing Method	• Coextrusion	• Extrusion	• Injection Molding

Technical Properties ²

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.45	1.45	ASTM D792
Molding Shrinkage - Flow	0.014 to 0.020 in/in	1.4 to 2.0 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ³ (100% Strain)	1300 psi	8.96 MPa	ASTM D638
Tensile Strength ³ (Break)	2150 psi	14.8 MPa	ASTM D638
Tensile Elongation ³ (Break)	350 %	350 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ⁴	370 lbf/in	64.8 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	32 %	32 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	84000 psi	579 MPa	
-15°F (-26°C)	45000 psi	310 MPa	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	90	90	
Shore A, 15 sec	84	84	
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
Flame Rating	HB	HB	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	380 to 400 °F	193 to 204 °C
Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	350 to 360 °F	177 to 182 °C

Notes

¹ NATURAL, BLACK 2999, WHITE 1320.
Max. Temper. of use = 100 degrees F.

² Typical values are not to be construed as specifications.

³ 20 in/min (510 mm/min)

⁴ Die C, 20 in/min (510 mm/min)



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