



# Geon™ Vinyl Flexible B4D01

## Flexible Polyvinyl Chloride

### Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Gloss		
Appearance	• Opaque		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.27	1.27	ASTM D792
Molding Shrinkage - Flow	8.0E-3 to 0.012 in/in	0.80 to 1.2 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup> (100% Strain)	2000 psi	13.8 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Break)	3000 psi	20.7 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	340 %	340 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength <sup>3</sup>	520 lbf/in	91.1 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	45 %	45 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
-31°F (-35°C)	89000 psi	614 MPa	
-8°F (-22°C)	45000 psi	310 MPa	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore D	53	53	
Shore D, 15 sec	38	38	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-16.6 °F	-27.0 °C	ASTM D746

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	385 to 405 °F	196 to 207 °C
Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	355 to 365 °F	179 to 185 °C

### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> 20 in/min (510 mm/min)

<sup>3</sup> Die C, 20 in/min (510 mm/min)

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