



# Geon™ Vinyl Flexible B85B0

## Flexible Polyvinyl Chloride

### Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Biocide		
Features	• Medium Gloss		
Uses	• Liners	• Swimming Pools	
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.32	1.32	ASTM D792
Molding Shrinkage - Flow	0.013 to 0.017 in/in	1.3 to 1.7 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup> (100% Strain)	1200 psi	8.27 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Break)	2350 psi	16.2 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	400 %	400 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength <sup>3</sup>	400 lbf/in	70.1 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	28 %	28 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	48000 psi	331 MPa	
-26°F (-32°C)	45000 psi	310 MPa	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	85	85	
Shore A, 15 sec	79	79	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-33.0 °F	-36.1 °C	ASTM D746

### 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	345 to 355 °F	174 to 179 °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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