



Geon™ Vinyl Flexible B6D00

Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Medium Gloss		
Uses	• Construction Applications	• Fencing & Decking	
Agency Ratings	• NSF STD-51 ¹		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties ²

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.41	1.41	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 ³ (100% Strain)	2800 psi	19.3 MPa	ASTM D638
Tensile Strength ³ (Break)	3100 psi	21.4 MPa	ASTM D638
Tensile Elongation ³ (Break)	280 %	280 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Compression Set (73°F (23°C), 22 hr)	90 %	90 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	159000 psi	1100 MPa	
35°F (2°C)	45000 psi	310 MPa	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore D	69	69	
Shore D, 15 sec	59	59	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	26.0 °F	-3.33 °C	ASTM D746

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	355 to 365 °F	179 to 185 °C

Notes

¹ BLACK 2999.

Max. Temp. of use = 100 degrees F.

² Typical values are not to be construed as specifications.

³ Type IV, 20 in/min (510 mm/min)