Geon™ Vinyl Flexible B9000

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		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.34	1.34	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 [2] (100% Strain)	1500 psi	10.3 MPa	ASTM D638
Tensile Strength [2] (Break)	2500 psi	17.2 MPa	ASTM D638
Tensile Elongation [2] (Break)	360 %	360 %	ASTM D638
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tear Strength [3]	450 lbf/in	78.8 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	38 %	38 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	81000 psi	558 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	85	85	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Brittleness Temperature	-22.0 °F	-30.0 °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	350 to 360 °F	177 to 182 °C

Notes

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

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

[3] Die C, 20 in/min (510 mm/min)