Geon™ Vinyl Flexible C8000

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	• Seals	• Weatherstripping
Agency Ratings	• NSF 51 [1]		
Forms	• Pellets		
Processing Method	• Coextrusion	• Extrusion	• Injection Molding

Technical Properties [2]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.40	1.40	ASTM D792
Molding Shrinkage - Flow	0.017 to 0.021 in/in	1.7 to 2.1 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [3] (100% Strain)	850 psi	5.86 MPa	ASTM D638
Tensile Strength [3] (Break)	1700 psi	11.7 MPa	ASTM D638
Tensile Elongation [3] (Break)	380 %	380 %	ASTM D638
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tear Strength [4]	250 lbf/in	43.8 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	23 %	23 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	30000 psi	207 MPa	
-38°F (-39°C)	45000 psi	310 MPa	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A	80	80	
Shore A, 15 sec	72	72	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Brittleness Temperature	-36.0 °F	-37.8 °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	345 to 355 °F	174 to 179 °C

Notes

[1] NATURAL, WHITE 1000, BLACK 2999.
Max. Temp. 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)

CONTACT INFORMATION

Americas

United States - Avon Lake
+1 440 930 1000

United States - McHenry
+1 815 385 8500

Asia

China - Guangzhou
+86 20 8732 7260

China - Shenzhen
+86 755 2969 2888

China - Suzhou
+86 512 6823 24 38

China - Suzhou
+86 512 6265 2600

Hong Kong -
+852 2690 5332

Taiwan - Yonghe City,
+886 9396 99740, +886 2929 1849

Europe

Germany - Gaggenau
+49 7225 6802 0

Spain - Barbastro (Huesca)
+34 974 310 314

Beyond Polymers.

Better Business Solutions. SM

www.polyone.com

PolyOne Americas
33587 Walker Road
Avon Lake, Ohio 44012
United States
+1 440 930 1000
+1 866 POLYONE

PolyOne Asia
No. 88 Guoshoujing Road
Z.J Hi-tech Park, Pudong
Shanghai, 201203, China
+86 21 5080 1188

PolyOne Europe
6 Giällewee
+352 269 050 35