



Geon™ Vinyl Flexible B65F1

Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	• South America
Features	• Flame Retardant	• Good Melt Strength	
Uses	• Construction Applications		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.24	1.24	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	525 psi	3.62 MPa	ASTM D638
Tensile Strength ² (Break)	1500 psi	10.3 MPa	ASTM D638
Tensile Elongation ² (Break)	460 %	460 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	220 lbf/in	39 kN/m	ASTM D624
Compression Set (73°F (23°C), 22.0 hr)	22 %	22 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	3500 psi	24.1 MPa	
-67°F (-55°C)	45000 psi	310 MPa	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	65	65	
Shore A, 15 sec	57	57	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-60.0 °F	-51.1 °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	335 to 345 °F	168 to 174 °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)

CONTACT INFORMATION

Americas

Argentina - Buenos Aires
+0054 11 4200 5917

Brasil - Campinas
+55 19 3206 0561

Canada - Mississauga
+1 905 673 1213

Canada - St Remi de Napierville
+1 450 454 8010

Colombia - Bogota D.C.
+57 1 622 1844

Mexico - Toluca
+52 722 2790200

United States - Avon Lake
+1 440 930 1000

Asia

China - HouJie Town, DongGuan
City,
+ 86 (0) 769 8587 8800

Europe

Belgium - Assesse
+32 (0) 83 660 211



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 (0) 21 5080 1188

PolyOne Europe

2 Rue Melville Wilson
5330 Assesse, Belgium
+32 (0) 83 660 211