



Geon™ Vinyl Flexible B5500

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		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.22	1.22	ASTM D792
Molding Shrinkage - Flow	0.023 to 0.027 in/in	2.3 to 2.7 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	380 psi	2.62 MPa	ASTM D638
Tensile Strength ² (Break)	1100 psi	7.58 MPa	ASTM D638
Tensile Elongation ² (Break)	460 %	460 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	180 lbf/in	31.5 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	17 %	17 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	1900 psi	13.1 MPa	
-74°F (-59°C)	45000 psi	310 MPa	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	55	55	
Shore A, 15 sec	49	49	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-67.0 °F	-55.0 °C	ASTM D746

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	360 to 390 °F	182 to 199 °C
Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	320 to 330 °F	160 to 166 °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)