



Geon™ Vinyl Flexible B7500

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
Specific Gravity	1.27	1.27	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 ² (100% Strain)	740 psi	5.10 MPa	ASTM D638
Tensile Strength ² (Break)	1800 psi	12.4 MPa	ASTM D638
Tensile Elongation ² (Break)	420 %	420 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	270 lbf/in	47.3 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	23 %	23 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	18000 psi	124 MPa	
-45°F (-43°C)	45000 psi	310 MPa	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	75	75	
Shore A, 15 sec	66	66	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-47.0 °F	-43.9 °C	ASTM D746
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.0591 in (1.50 mm), ALL)	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 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)

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