

Geon™ Vinyl Flexible A8500

Flexible Polyvinyl Chloride

PolyOne Corporation

Message:

Interior applications.

General Information			
Features	General Purpose		
	High Gloss		
Uses	Flooring		
	General Purpose		
	Hose		
	Tubing		
Agency Ratings	NSF 51 2		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.5 to 1.9	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	85		
Shore A, 15 sec	75		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Break	16.5	MPa	
100% Strain	9.65	MPa	
Tensile Elongation ² (Break)	350	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ³	77.1	kN/m	ASTM D624
Compression Set (23°C, 22 hr)	45	%	ASTM D395
Clash-Berg Modulus (-20°C)	310	MPa	ASTM D1043
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-32.8	°C	ASTM D746
Optical	Nominal Value	Unit	Test Method

Transmittance ⁴ (1910 μm)	80.0	%	ASTM D1003
Haze (1910 μm)	5.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	193 to 204	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	174 to 179	°C	
NOTE			
1.	510 mm/min		
2.	510 mm/min		
3.	Die C, 510 mm/min		
4.	CIE Illuminant C		

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