

Geon™ Vinyl Flexible A6500

Flexible Polyvinyl Chloride

PolyOne Corporation

Message:

Interior applications.

General Information			
Features	High Gloss		
Uses	Hose		
	Tubing		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Molding Shrinkage - Flow	2.3 to 2.7	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	65		
Shore A, 15 sec	58		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Break	9.65	MPa	
100% Strain	3.93	MPa	
Tensile Elongation ² (Break)	440	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ³	29.8	kN/m	ASTM D624
Compression Set (23°C, 22 hr)	30	%	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	37.9	MPa	
-40°C	310	MPa	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-46.7	°C	ASTM D746
Optical	Nominal Value	Unit	Test Method
Transmittance ⁴ (1910 µm)	85.0	%	ASTM D1003
Haze (1910 µm)	3.0	%	ASTM D1003
Injection	Nominal Value	Unit	

Processing (Melt) Temp	188 to 199	°C
Extrusion	Nominal Value	Unit
Melt Temperature	168 to 174	°C
NOTE		
1.	510 mm/min	
2.	510 mm/min	
3.	Die C, 510 mm/min	
4.	CIE Illuminant C	

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