

Geon™ Vinyl Flexible A8001

Flexible Polyvinyl Chloride

PolyOne Corporation

Message:

Interior applications.

General Information			
Features	General Purpose		
	High Gloss		
Uses	General Purpose		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	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	80		
Shore A, 15 sec	73		

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Break	14.5	MPa	
100% Strain	8.96	MPa	
Tensile Elongation ² (Break)	380	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ³	57.8	kN/m	ASTM D624
Compression Set (23°C, 22 hr)	25	%	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	241	MPa	
-38°C	310	MPa	

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-40.0	°C	ASTM D746
Optical	Nominal Value	Unit	Test Method
Transmittance ⁴ (1910 µm)	82.0	%	ASTM D1003
Haze (1910 µm)	4.0	%	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.	Type IV, 510 mm/min	
2.	Type IV, 510 mm/min	
3.	Die C, 510 mm/min	
4.	CIE Illuminant C	

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