



Geon™ Vinyl Flexible A8001

Flexible Polyvinyl Chloride

Key Characteristics

Product Description			
Interior applications.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• General Purpose	• High Gloss	
Uses	• General Purpose		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.20	1.20	ASTM D792
Molding Shrinkage - Flow	0.015 to 0.019 in/in	1.5 to 1.9 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	1300 psi	8.96 MPa	ASTM D638
Tensile Strength ² (Break)	2100 psi	14.5 MPa	ASTM D638
Tensile Elongation ² (Break)	380 %	380 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	330 lbf/in	57.8 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	25 %	25 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	35000 psi	241 MPa	
-36°F (-38°C)	45000 psi	310 MPa	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	80	80	
Shore A, 15 sec	73	73	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-40.0 °F	-40.0 °C	ASTM D746
Optical	Typical Value (English)	Typical Value (SI)	Test Method
Transmittance ⁴ (75.0 mil (1910 µm))	82.0 %	82.0 %	ASTM D1003
Haze (75.0 mil (1910 µm))	4.0 %	4.0 %	ASTM D1003

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

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Notes

¹ Typical values are not to be construed as specifications.

² Type IV, 20 in/min (510 mm/min)

³ Die C, 20 in/min (510 mm/min)

⁴ CIE Illuminant C

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