



Geon™ Vinyl Flexible A8500

Flexible Polyvinyl Chloride

Key Characteristics

Product Description	
Interior applications.	
General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Features	• General Purpose • High Gloss
Uses	• Flooring • Hose • General Purpose • Tubing
Agency Ratings	• NSF 51 ¹
Appearance	• Clear/Transparent
Forms	• Pellets
Processing Method	• Extrusion • Injection Molding

Technical Properties ²

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.21	1.21	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 ³ (100% Strain)	1400 psi	9.65 MPa	ASTM D638
Tensile Strength ³ (Break)	2400 psi	16.5 MPa	ASTM D638
Tensile Elongation ³ (Break)	350 %	350 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ⁴	440 lbf/in	77.1 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	45 %	45 %	ASTM D395
Clash-Berg Modulus (-4°F (-20°C))	45000 psi	310 MPa	ASTM D1043
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	85	85	
Shore A, 15 sec	75	75	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-27.0 °F	-32.8 °C	ASTM D746
Optical	Typical Value (English)	Typical Value (SI)	Test Method
Transmittance ⁵ (75.0 mil (1910 μm))	80.0 %	80.0 %	ASTM D1003
Haze (75.0 mil (1910 μm))	5.0 %	5.0 %	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 TRANS 9400.
Max. Temp. of use = 100 degrees F.

- ² Typical values are not to be construed as specifications.

- ³ 20 in/min (510 mm/min)

- ⁴ Die C, 20 in/min (510 mm/min)

- ⁵ CIE Illuminant C

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