



Geon™ Vinyl Flexible A6500

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	• High Gloss		
Uses	• Hose	• Tubing	
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.15	1.15	ASTM D792
Molding Shrinkage - Flow	0.023 to 0.027 in/in	2.3 to 2.7 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	570 psi	3.93 MPa	ASTM D638
Tensile Strength ² (Break)	1400 psi	9.65 MPa	ASTM D638
Tensile Elongation ² (Break)	440 %	440 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	170 lbf/in	29.8 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	30 %	30 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	5500 psi	37.9 MPa	
-40°F (-40°C)	45000 psi	310 MPa	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	65	65	
Shore A, 15 sec	58	58	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-52.0 °F	-46.7 °C	ASTM D746
Optical	Typical Value (English)	Typical Value (SI)	Test Method
Transmittance ⁴ (75.0 mil (1910 µm))	85.0 %	85.0 %	ASTM D1003
Haze (75.0 mil (1910 µm))	3.0 %	3.0 %	ASTM D1003

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	370 to 390 °F	188 to 199 °C
Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	335 to 345 °F	168 to 174 °C

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Notes

¹ Typical values are not to be construed as specifications.

² 20 in/min (510 mm/min)

³ Die C, 20 in/min (510 mm/min)

⁴ CIE Illuminant C

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