



Geon™ Vinyl Flexible A7500

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
Density / Specific Gravity	1.18	1.18	ASTM D792
Molding Shrinkage - Flow	0.019 to 0.023 in/in	1.9 to 2.3 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	850 psi	5.86 MPa	ASTM D638
Tensile Strength ² (Break)	2000 psi	13.8 MPa	ASTM D638
Tensile Elongation ² (Break)	400 %	400 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	250 lbf/in	43.8 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	30 %	30 %	ASTM D395
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	75	75	
Shore A, 15 sec	65	65	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-47.0 °F	-43.9 °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))	4.00 %	4.00 %	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

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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