



Geon™ Vinyl Flexible A5D00

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	• Film • General Purpose • Sheet		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion • Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.26	1.26	ASTM D792
Molding Shrinkage - Flow	0.012 to 0.016 in/in	1.2 to 1.6 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	2200 psi	15.2 MPa	ASTM D638
Tensile Strength ² (Break)	3000 psi	20.7 MPa	ASTM D638
Tensile Elongation ² (Break)	340 %	340 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	675 lbf/in	118 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	62 %	62 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	116000 psi	800 MPa	
12°F (-11°C)	45000 psi	310 MPa	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore D	55	55	
Shore D, 15 sec	42	42	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-6.00 °F	-21.1 °C	ASTM D746
Optical	Typical Value (English)	Typical Value (SI)	Test Method
Transmittance ⁴ (75.0 mil (1910 µm))	75.0 %	75.0 %	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	355 to 365 °F	179 to 185 °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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