



Geon™ Vinyl Flexible A9001

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	• Hose • Sheet	• 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	1.24	1.24	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	1580 psi	10.9 MPa	ASTM D638
Tensile Strength ² (Break)	2700 psi	18.6 MPa	ASTM D638
Tensile Elongation ² (Break)	390 %	390 %	ASTM D638
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	90	90	
Shore A, 15 sec	84	84	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-29.0 °F	-33.9 °C	ASTM D746
Optical	Typical Value (English)	Typical Value (SI)	Test Method
Transmittance ³ (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	350 to 360 °F	177 to 182 °C

Notes

¹ Typical values are not to be construed as specifications.

² 20 in/min (510 mm/min)

³ CIE Illuminant C

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