



Geon™ Vinyl Flexible A4DU5

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 • Good UV Resistance
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
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)	2100 psi	14.5 MPa	ASTM D638
Tensile Strength ² (Break)	2900 psi	20.0 MPa	ASTM D638
Tensile Elongation ² (Break)	330 %	330 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	650 lbf/in	114 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	60 %	60 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	110000 psi	758 MPa	
8°F (-13°C)	45000 psi	310 MPa	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	93	93	
Shore A, 15 sec	86	86	
Shore D	53	53	
Shore D, 15 sec	40	40	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-4.00 °F	-20.0 °C	ASTM D746

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 370 °F	177 to 188 °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)

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