



Geon™ Vinyl Flexible C90A0

Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Adhesion		
Forms	• Pellets		
Processing Method	• Coextrusion	• Extrusion	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.43	1.43	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	1300 psi	8.96 MPa	ASTM D638
Tensile Strength ² (Break)	2300 psi	15.9 MPa	ASTM D638
Tensile Elongation ² (Break)	270 %	270 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	370 lbf/in	64.8 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	40 %	40 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	56000 psi	386 MPa	
-32°F (-36°C)	45000 psi	310 MPa	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	90	90	
Shore A, 15 sec	86	86	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-22.0 °F	-30.0 °C	ASTM D746

Processing Information

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 Die C, 20 in/min (510 mm/min)

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