



Geon™ Vinyl Flexible D7000

Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Low Gloss		
Forms	• Pellets		
Processing Method	• Extrusion		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.49	1.49	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	500 psi	3.45 MPa	ASTM D638
Tensile Strength ² (Break)	850 psi	5.86 MPa	ASTM D638
Tensile Elongation ² (Break)	350 %	350 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	150 lbf/in	26.3 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	20 %	20 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	6300 psi	43.4 MPa	
-10°F (-23°C)	45000 psi	310 MPa	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	70	70	
Shore A, 15 sec	61	61	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-36.0 °F	-37.8 °C	ASTM D746

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	340 to 350 °F	171 to 177 °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)