



Geon™ Vinyl Flexible C6500

Flexible Polyvinyl Chloride

Key Characteristics

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

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.34	1.34	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	450 psi	3.10 MPa	ASTM D638
Tensile Strength ² (Break)	1180 psi	8.14 MPa	ASTM D638
Tensile Elongation ² (Break)	420 %	420 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	190 lbf/in	33.3 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	19 %	19 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	4800 psi	33.1 MPa	
-62°F (-52°C)	45000 psi	310 MPa	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	65	65	
Shore A, 15 sec	58	58	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-52.0 °F	-46.7 °C	ASTM D746

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	370 to 390 °F	188 to 199 °C
Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	335 to 345 °F	168 to 174 °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)