



Geon™ Vinyl Flexible C80B1 WHITE 1473

Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Biocide ¹		
Features	• Medium Gloss		
Uses	• Protective Coverings		
Agency Ratings	• UL 94 HB		
Forms	• Pellets		
Processing Method	• Coextrusion	• Extrusion	• Injection Molding

Technical Properties ²

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.38	1.38	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ³ (100% Strain)	871 psi	6.01 MPa	ASTM D638
Tensile Strength ³ (Break)	1640 psi	11.3 MPa	ASTM D638
Tensile Elongation ³ (Break)	310 %	310 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Compression Set (73°F (23°C), 22 hr)	25 %	25 %	ASTM D395
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A ⁴	79	79	
Shore A, 15 sec	70	70	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-39.5 °F	-39.7 °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	345 to 355 °F	174 to 179 °C

Notes

¹ Mildew Resistance: It passes ASTM G-21 -96Fungal Growth Test.

² Typical values are not to be construed as specifications.

³ Type IV, 20 in/min (510 mm/min)

⁴ This compound was tested for Thermal Conductivity and Thermal Resistance under ASTM C 177.

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