



Geon™ Vinyl Flexible B83UB

Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Biocide • UV Stabilizer		
Features	• Flame Retardant • UV Absorbing		
Uses	• Profiles • Spas		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	• Profile Extrusion

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.28	1.28	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	1400 psi	9.65 MPa	ASTM D638
Tensile Strength ² (Break)	2500 psi	17.2 MPa	ASTM D638
Tensile Elongation ² (Break)	330 %	330 %	ASTM D638
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, 15 sec	83	83	
Shore D	44	44	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-22.0 °F	-30.0 °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 360 °F	177 to 182 °C

Notes

¹ Typical values are not to be construed as specifications.

² 20 in/min (510 mm/min)

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