



Geon™ Vinyl Flexible B85UB

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	• Medium Gloss	• UV Absorbing	
Uses	• Liners		
Forms	• Pellets		
Processing Method	• Coextrusion	• Extrusion	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.33	1.33	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	1500 psi	10.3 MPa	ASTM D638
Tensile Strength ² (Break)	2460 psi	17.0 MPa	ASTM D638
Tensile Elongation ² (Break)	360 %	360 %	ASTM D638
Tear Resistance ³	460 lbf/in	79.7 kN/m	ASTM D1004
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Compression Set (73°F (23°C), 22 hr)	35 %	35 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	77700 psi	536 MPa	
-17°F (-27°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	83	83	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-20.2 °F	-29.0 °C	ASTM D746

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	380 to 390 °F	193 to 199 °C
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, 2 in/min