



Geon™ Vinyl Flexible B65B0

Flexible Polyvinyl Chloride

Key Characteristics

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

Technical Properties¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.27	1.27	ASTM D792
Molding Shrinkage - Flow	0.019 to 0.023 in/in	1.9 to 2.3 %	ASTM D955
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)	1400 psi	9.65 MPa	ASTM D638
Tensile Elongation ² (Break)	440 %	440 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	210 lbf/in	37 kN/m	ASTM D624
Compression Set (73°F (23°C), 22.0 hr)	21 %	21 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	4200 psi	29.0 MPa	
-63°F (-53°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	55	55	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-56.0 °F	-48.9 °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)

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