Geon™ Vinyl Flexible B4DC1

Flexible Polyvinyl Chloride

Key Characteristics

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

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.35	1.35	ASTM D792
Molding Shrinkage - Flow	8.0E-3 to 0.012 in/in	0.80 to 1.2 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2] (100% Strain)	1200 psi	8.27 MPa	ASTM D638
Tensile Strength [2] (Break)	2300 psi	15.9 MPa	ASTM D638
Tensile Elongation [2] (Break)	350 %	350 %	ASTM D638
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tear Strength [3]	440 lbf/in	77.1 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	60 %	60 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	71000 psi	490 MPa	
-27°F (-33°C)	45000 psi	310 MPa	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness			ASTM D2240
Shore D	50	50	
Shore D, 15 sec	36	36	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Brittleness Temperature	-28.0 °F	-33.3 °C	ASTM D746

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	385 to 405 °F	196 to 207 °C
Extrusion	**Typical Value (English)**	**Typical Value (SI)**
Melt Temperature	355 to 365 °F	179 to 185 °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)