



Geon™ Vinyl Flexible B5D02

Flexible Polyvinyl Chloride

Key Characteristics

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

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.29	1.29	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)	1700 psi	11.7 MPa	ASTM D638
Tensile Strength ² (Break)	2500 psi	17.2 MPa	ASTM D638
Tensile Elongation ² (Break)	300 %	300 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	480 lbf/in	84.1 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	60 %	60 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	82000 psi	565 MPa	
-18°F (-28°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	-11.0 °F	-23.9 °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)

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