



Geon™ Vinyl Flexible B7D01

Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Medium Gloss		
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
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	3450 psi	23.8 MPa	ASTM D638
Tensile Strength ² (Break)	3580 psi	24.7 MPa	ASTM D638
Tensile Elongation ² (Break)	270 %	270 %	ASTM D638
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	64	64	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load ³			ASTM D648A
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm), Injection Molded	96.8 °F	36.0 °C	
66 psi (0.45 MPa), Unannealed, 0.250 in (6.35 mm), Injection Molded	98.2 °F	36.8 °C	
Deflection Temperature Under Load ³			ASTM D648A
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm), Injection Molded	91.4 °F	33.0 °C	
264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm), Injection Molded	93.2 °F	34.0 °C	
Brittleness Temperature	18.5 °F	-7.50 °C	ASTM D746
CLTE - Flow (-22 to 86°F (-30 to 30°C))	5.8E-5 in/in/°F	1.0E-4 cm/cm/°C	ASTM D696

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	365 to 380 °F	185 to 193 °C

Notes

¹ Typical values are not to be construed as specifications.

² 20 in/min (510 mm/min)

³ Conditioned