



Geon™ Vinyl Flexible B5D05

Flexible Polyvinyl Chloride

Key Characteristics

Product Description

A flexible PVC Compound, designed primarily for extruded sheet and tile applications.

General

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

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.38	1.38	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	2520 psi	17.4 MPa	ASTM D638
Tensile Strength ² (Break)	2970 psi	20.5 MPa	ASTM D638
Tensile Elongation ³ (Break)	310 %	310 %	ASTM D638
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	58	58	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	12.2 °F	-11.0 °C	ASTM D746
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Oxygen Index	26 %	26 %	ASTM D2863

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 2.0 in/min (51 mm/min)