



# Geon™ Vinyl Dry Blend E7001

## Rigid Polyvinyl Chloride

### Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Impact Resistance • Low Gloss		
Uses	• Outdoor Applications		
Forms	• Powder		
Processing Method	• Extrusion	• Profile Extrusion	

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.42	1.42	ASTM D792
PVC Cell Classification	1-42433-43-0000	1-42433-43-0000	ASTM D4216
PVC Cell Classification	15344	15344	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>2</sup>	380000 psi	2620 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	6330 psi	43.6 MPa	ASTM D638
Flexural Modulus	398000 psi	2740 MPa	ASTM D790
Flexural Strength	11500 psi	79.3 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact - Across Flow 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	13 ft·lb/in	680 J/m	ASTM D256A
Drop Impact Resistance 73°F (23°C) <sup>3</sup> 73°F (23°C) <sup>4</sup>	1.50 in·lb/mil 4.00 in·lb/mil	66.7 J/cm 178 J/cm	ASTM D4226
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	79	79	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	176 °F	80.0 °C	ASTM D648
Deflection Temperature Under Load 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	178 °F	81.1 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	165 °F	73.9 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	172 °F	77.8 °C	ASTM D648
CLTE - Flow	3.6E-5 in/in/°F	6.4E-5 cm/cm/°C	ASTM D696

**Additional Information**  
60 degree gloss comparisons: Geon E7001 is 27-29; Geon E7456 is 40-49; Geon E7130 is 38-43; Geon E7370 is 26-31

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Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	380 to 400 °F	193 to 204 °C

Notes

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)

<sup>3</sup> Procedure A, C.125 Dart

<sup>4</sup> Procedure B, C.125 Dart

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