



Geon™ Vinyl Dry Blend E1501

Rigid Polyvinyl Chloride

Key Characteristics

Product Description	
VSI FLAMMABILITY: Burn Length (0.040 in Bar) ASTM D635 0* IN. Burn Time (0.040 in Bar) ASTM D635 0* Sec.* Extinguished before 25 MM starting ref mark.	
General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Features	• Good Thermal Stability • Impact Modified
Uses	• Siding Substrate
Agency Ratings	• NSF 51 ¹
Forms	• Powder
Processing Method	• Extrusion

Technical Properties ²

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.45	1.45	ASTM D792
PVC Cell Classification	16354	16354	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ³	428000 psi	2950 MPa	ASTM D638
Tensile Strength ³ (Yield)	6040 psi	41.6 MPa	ASTM D638
Flexural Modulus	421000 psi	2900 MPa	ASTM D790
Flexural Strength	11500 psi	79.3 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
32°F (0°C), 0.125 in (3.18 mm), Compression Molded	1.6 ft-lb/in	85 J/m	
73°F (23°C), 0.125 in (3.18 mm), Compression Molded	9.8 ft-lb/in	520 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) ⁴	1.90 in-lb/mil	84.5 J/cm	
73°F (23°C) ⁵	4.00 in-lb/mil	178 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	83	83	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load ⁶			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded	165 °F	73.9 °C	
CLTE - Flow	3.6E-5 in/in/°F	6.5E-5 cm/cm/°C	ASTM D696
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating	V-0	V-0	UL 94

Processing Information

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

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Notes

- ¹ The E1501 white 1564 color is the only NSF 51 listed color in this product.

- ² Typical values are not to be construed as specifications.

- ³ Type I, 0.20 in/min (5.1 mm/min)

- ⁴ Procedure A, C.125 Dart

- ⁵ Procedure B, C.125 Dart

- ⁶ annealed at 50 deg.C

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