



## Geon™ Vinyl Dry Blend E6950

### Rigid Polyvinyl Chloride

#### Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Medium Impact Resistance		
Agency Ratings	• NSF 51 <sup>1</sup>		
Forms	• Powder		
Processing Method	• Extrusion		

#### Technical Properties <sup>2</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.40	1.40	ASTM D792
PVC Cell Classification	1-41443-33-0000	1-41443-33-0000	ASTM D4216
PVC Cell Classification	16354	16354	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>3</sup>	400000 psi	2760 MPa	ASTM D638
Tensile Strength <sup>3</sup> (Yield)	6800 psi	46.9 MPa	ASTM D638
Flexural Modulus	450000 psi	3100 MPa	ASTM D790
Flexural Strength	13800 psi	95.1 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	20 ft·lb/in	1100 J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226
73°F (23°C) <sup>4</sup>	1.30 in·lb/mil	57.8 J/cm	
73°F (23°C) <sup>5</sup>	4.50 in·lb/mil	200 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	80	80	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load <sup>6</sup> 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded	165 °F	73.9 °C	ASTM D648
CLTE - Flow	3.5E-5 in/in/°F	6.3E-5 cm/cm/°C	ASTM D696
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating	• V-0 • 5VA	• V-0 • 5VA	UL 94

#### Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	375 to 400 °F	191 to 204 °C

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## Notes

- <sup>1</sup> The E6950 natural 0000 is the only NSF 51 listed color in this product.
- <sup>2</sup> Typical values are not to be construed as specifications.
- <sup>3</sup> Type I, 0.20 in/min (5.1 mm/min)
- <sup>4</sup> Procedure A, C.125 Dart
- <sup>5</sup> Procedure B, C.125 Dart
- <sup>6</sup> Annealed at 50 deg.C

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