



# Geon™ Vinyl Dry Blend E7755

## Rigid Polyvinyl Chloride

### Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Thermal Stability • High Impact Resistance		
Uses	• Fencing & Decking • Film	• Outdoor Applications • Profiles	• Sheet
Forms	• Powder		
Processing Method	• Extrusion	• Profile Extrusion	• Sheet Extrusion

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.49	1.49	ASTM D792
PVC Cell Classification	1-42434-33-0100	1-42434-33-0100	ASTM D4216
PVC Cell Classification	16354	16354	ASTM D1784
Outdoor Suitability (White)	f1	f1	UL 746C
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>2</sup>	423000 psi	2920 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	6300 psi	43.4 MPa	ASTM D638
Flexural Modulus	436000 psi	3010 MPa	ASTM D790
Flexural Strength	11500 psi	79.4 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	24 ft·lb/in	1300 J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226
73°F (23°C) <sup>3</sup>	1.60 in·lb/mil	71.2 J/cm	
73°F (23°C) <sup>4</sup>	3.00 in·lb/mil	133 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	84	84	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load <sup>5</sup> 66 psi (0.45 MPa), Annealed	167 °F	74.8 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	163 °F	72.8 °C	ASTM D648
CLTE - Flow	3.4E-5 in/in/°F	6.1E-5 cm/cm/°C	ASTM D696
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity (0.0480 in (1.22 mm))	4.7E+14 ohms	4.7E+14 ohms	ASTM D257
Volume Resistivity (0.0480 in (1.22 mm))	7.7E+15 ohms·cm	7.7E+15 ohms·cm	ASTM D257

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Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.0146 in (0.370 mm), white	HB	HB	
0.0295 in (0.750 mm), all colors	V-0	V-0	
0.0787 in (2.00 mm), white	5VA	5VA	

**Processing Information**

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	380 to 410 °F	193 to 210 °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
- <sup>5</sup> conditioned @ 50 deg.C

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