



# Geon™ Vinyl Dry Blend E7456

## 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		
Uses	• Building Materials	• Fencing & Decking	• 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	1.46	1.46	ASTM D792
PVC Cell Classification	1-42444-33-1141	1-42444-33-1141	ASTM D4216
PVC Cell Classification	16364	16364	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>2</sup>	448000 psi	3090 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	6950 psi	47.9 MPa	ASTM D638
Flexural Modulus	417000 psi	2880 MPa	ASTM D790
Flexural Strength	13100 psi	90.3 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	25 ft·lb/in	1300 J/m	ASTM D256A
Drop Impact Resistance 73°F (23°C) <sup>3</sup>	1.60 in·lb/mil	71.2 J/cm	ASTM D4226
73°F (23°C) <sup>4</sup>	4.00 in·lb/mil	178 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	82	82	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	160 °F	71.0 °C	ASTM D648
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
Additional Information	Typical Value (English)	Typical Value (SI)	Test Method
AAMA 303	Pass	Pass	ASTM D4726

### Processing Information

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

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**Notes**

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

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

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

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

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