



Geon™ Vinyl Dry Blend E7000

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	• Outdoor Applications		
Forms	• Powder		
Processing Method	• Extrusion	• Profile Extrusion	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.42	1.42	ASTM D792
PVC Cell Classification	1-32443-43-0000	1-32443-43-0000	ASTM D4216
PVC Cell Classification	13344	13344	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	384000 psi	2650 MPa	ASTM D638
Tensile Strength ² (Yield)	6530 psi	45.0 MPa	ASTM D638
Flexural Modulus	403000 psi	2780 MPa	ASTM D790
Flexural Strength	11900 psi	82.0 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	3.4 ft·lb/in	180 J/m	ASTM D256A
Drop Impact Resistance 73°F (23°C) ³	1.50 in·lb/mil	66.7 J/cm	ASTM D4226
73°F (23°C) ⁴	4.00 in·lb/mil	178 J/cm	
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)	174 °F	78.9 °C	ASTM D648
Deflection Temperature Under Load 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	178 °F	81.1 °C	
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 E7000 is 47-49; Geon E7456 is 40-49; Geon E7130 is 38-43; Geon E7370 is 26-31

Processing Information

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

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)

³ Procedure A, C.125 Dart

⁴ Procedure B, C.125 Dart



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