



Geon™ Vinyl Dry Blend E7853

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 • Weather Resistant		
Forms	• Powder		
Processing Method	• Extrusion		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.50	1.50	ASTM D792
PVC Cell Classification	12363	12363	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²			ASTM D638
73°F (23°C), 0.125 in (3.18 mm)	560000 psi	3860 MPa	
Tensile Strength ²			ASTM D638
Yield, 73°F (23°C), 0.125 in (3.18 mm)	6660 psi	45.9 MPa	
Flexural Modulus ³			ASTM D790
73°F (23°C), 0.119 in (3.02 mm)	446000 psi	3080 MPa	
Flexural Strength ³			ASTM D790
73°F (23°C), 0.119 in (3.02 mm)	11900 psi	82.3 MPa	
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact - Across Flow			ASTM D256A
73°F (23°C), 0.118 in (3.00 mm), Compression Molded	1.4 ft·lb/in	73 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) ⁴	1.97 in·lb/mil	87.5 J/cm	
73°F (23°C) ⁵	2.64 in·lb/mil	118 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	77	77	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.121 in (3.08 mm)	156 °F	68.7 °C	
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Annealed, 0.119 in (3.02 mm)	156 °F	69.1 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.119 in (3.03 mm)	143 °F	61.8 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.119 in (3.01 mm)	152 °F	66.8 °C	
CLTE - Flow	3.4E-5 in/in/°F	6.1E-5 cm/cm/°C	ASTM D696

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	360 to 380 °F	182 to 193 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)

³ 0.50 in/min (13 mm/min)

⁴ Procedure A, C.125 Dart

⁵ Procedure B, C.125 Dart



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