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 STD-51 [1]		
Forms	• Powder		
Processing Method	• Extrusion		

Technical Properties [2]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / 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 [3]	400000 psi	2760 MPa	ASTM D638
Tensile Strength [3] (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			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Compression Molded	20 ft·lb/in	1100 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) [4]	1.30 in·lb/mil	57.8 J/cm	
73°F (23°C) [5]	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 [6]			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded	165 °F	73.9 °C	
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

Notes

[1] The E6950 natural 0000 is the only NSF 51 listed color in this product.

[2] Typical values are not to be construed as specifications.

[3] Type I, 0.20 in/min (5.1 mm/min)

[4] Procedure A, C.125 Dart

[5] Procedure B, C.125 Dart

[6] Annealed at 50 deg.C

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