Technical Data Sheet

Geon™ Vinyl Dry Blend E7130

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 [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.45	1.45 g/cm³	ASTM D792
PVC Cell Classification	1-42444-33-0101	1-42444-33-0101	ASTM D4216
PVC Cell Classification	16354	16354	ASTM D1784
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	430000 psi	2970 MPa	ASTM D638
Tensile Strength [2] (Yield)	6850 psi	47.2 MPa	ASTM D638
Flexural Modulus	422000 psi	2910 MPa	ASTM D790
Flexural Strength	12700 psi	87.4 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	23 ft·lb/in	1200 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) [3]	1.60 in·lb/mil	71.2 J/cm	
73°F (23°C) [4]	3.50 in·lb/mil	156 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			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	165 °F	73.9 °C	
CLTE - Flow	3.6E-5 in/in/°F	6.5E-5 cm/cm/°C	ASTM D696
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

[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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