

Geon™ Vinyl Cellular E2500

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

The physical properties are measured under the non-foaming profile.

General Information			
Uses	Building materials		
	Outdoor application		
Forms	Powder		
	Honeycomb, inward foaming		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	0.599 - 0.798	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	3380	MPa	ASTM D638
Tensile Strength ³ (Yield)	51.6	MPa	ASTM D638
Flexural Modulus	3420	MPa	ASTM D790
Flexural Strength	96.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact - Across Flow (23°C, 3.18 mm, Compression Molded)	37	J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226
23°C ⁴	10.2	J/cm	ASTM D4226
23°C ⁵	10.2	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	70.0	°C	ASTM D648
CLTE - Flow	5.9E-5	cm/cm/°C	ASTM D696
Additional Information			
Physical properties were measured on non-foamed profiles.			
Extrusion	Nominal Value	Unit	
Melt Temperature	177 - 191	°C	
NOTE			
1.	Cellular		
2.	Type 1, 5.1 mm/min		
3.	Type 1, 5.1 mm/min		

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| 4. | Procedure A, C.125 Throwing |
| 5. | Procedure B, C.125 Throwing |

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