

Geon™ Vinyl Dry Blend E7000

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™Vinyl Dry Blend E7000 is a rigid PVC product. It can be processed by extrusion or profile extrusion molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: outdoor applications. The main characteristics are: impact resistance.

General Information	
Features	Impact resistance, high
Uses	Outdoor application
Forms	Powder
Processing Method	Extrusion Profile extrusion molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
PVC Cell Classification	1-32443-43-0000		ASTM D4216
PVC Cell Classification	13344		ASTM D1784

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	79		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2650	MPa	ASTM D638
Tensile Strength ² (Yield)	45.0	MPa	ASTM D638
Flexural Modulus	2780	MPa	ASTM D790
Flexural Strength	82.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact - Across Flow (23°C, 3.18 mm, Compression Molded)	180	J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226
23°C ³	66.7	J/cm	ASTM D4226
23°C ⁴	178	J/cm	ASTM D4226

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.18mm	78.9	°C	ASTM D648
0.45 MPa, annealed, 3.18mm	81.1	°C	ASTM D648
1.8 MPa, unannealed, 3.18mm	73.9	°C	ASTM D648
1.8 MPa, annealed, 3.18mm	77.8	°C	ASTM D648
CLTE - Flow	6.4E-5	cm/cm/°C	ASTM D696

Additional Information

60度光泽比较: Geon E7000 为47-49;Geon E7456为40-49;Geon E7130为38-43;Geon E7370为26-31.

Extrusion	Nominal Value	Unit
Melt Temperature	193 - 204	°C
NOTE		
1.	Type 1, 5.1 mm/min	
2.	Type 1, 5.1 mm/min	
3.	Procedure A, C.125 Throwing	
4.	Procedure B, C.125 Throwing	

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