

Geon™ Vinyl Dry Blend E7009

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Bendable, low elastic memory effect

General Information			
Features	Good weather resistance		
	Medium impact resistance		
Uses	Doors and Windows		
	Profile		
Forms	Powder		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792
PVC Cell Classification	1-22434-42-0000		ASTM D4216
PVC Cell Classification	12364		ASTM D1784
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	3070	MPa	ASTM D638
Tensile Strength ² (Yield)	47.0	MPa	ASTM D638
Flexural Modulus	3320	MPa	ASTM D790
Flexural Strength	84.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Compression Molded)	64	J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226
23°C ³	74.7	J/cm	ASTM D4226
23°C ⁴	141	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, annealed, 3.18mm ⁵	79.4	°C	ASTM D648
0.45 MPa, annealed, 3.18mm ⁶	78.3	°C	ASTM D648
1.8 MPa, annealed, 3.18mm, molded ⁷	78.3	°C	ASTM D648
1.8 MPa, annealed, 3.18mm, molded ⁸	73.9	°C	ASTM D648
CLTE - Flow	5.9E-5	cm/cm/°C	ASTM D696
Additional Information			

Physical properties based on Geon E7009 white 1024 lot# UTCX 57572

Extrusion	Nominal Value	Unit
Melt Temperature	193 - 210	°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 |
| 5. | Annealed at 60 deg.C |
| 6. | Annealed at 50 deg.C |
| 7. | Annealed at 60 deg.C |
| 8. | Annealed at 50 deg.C |

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