

Geon™ Vinyl Dry Blend E7507

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon E7507 is recommended for whites and colors above a 60L value only. Performs well in high rate fencing capstock applications. Not recommended for horizontal applications such as railing and decking except in white.

General Information			
Features	Highlight		
	Medium impact resistance		
Uses	Outdoor application		
	Tread rubber		
	Profile		
Forms	Powder		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
PVC Cell Classification	13444		ASTM D1784
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	76		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2740	MPa	ASTM D638
Tensile Strength ² (Yield)	48.6	MPa	ASTM D638
Flexural Modulus	3020	MPa	ASTM D790
Flexural Strength	85.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Compression Molded)	140	J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226
23°C ³	80.1	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, annealed, 3.18mm ⁵	79.5	°C	ASTM D648
0.45 MPa, annealed, 3.18mm ⁶	78.2	°C	ASTM D648
1.8 MPa, annealed, 3.18mm, molded ⁷	77.5	°C	ASTM D648
1.8 MPa, annealed, 3.18mm, molded ⁸	72.3	°C	ASTM D648
CLTE - Flow	6.4E-5	cm/cm/°C	ASTM D696
Additional Information			

Physical properties based on Geon E7507 beige 3048 lot# 4701698.

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.	conditioned @ 50 deg.C	
7.	Annealed at 60 deg.C	
8.	Conditioned at 50 deg.C	

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