

Geon™ Vinyl Dry Blend E7755

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Dry Blend E7755 is a Rigid Polyvinyl Chloride product. It can be processed by extrusion, profile extrusion, or sheet extrusion and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Geon™ Vinyl Dry Blend E7755 include outdoor applications, construction applications, film and sheet.

Characteristics include:

- Flame Rated
- Heat Resistant
- Impact Resistant

General Information			
UL YellowCard	E41877-101071820	E41877-234253	
Features	Good Thermal Stability		
	High Impact Resistance		
Uses	Fencing & Decking		
	Film		
	Outdoor Applications		
	Profiles		
	Sheet		
Forms	Powder		
Processing Method	Extrusion		
	Profile Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm ³	ASTM D792
PVC Cell Classification	1-42434-33-0100		ASTM D4216
PVC Cell Classification	16354		ASTM D1784
Outdoor Suitability (White)	f1		UL 746C
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	84		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2920	MPa	ASTM D638
Tensile Strength ² (Yield)	43.4	MPa	ASTM D638
Flexural Modulus	3010	MPa	ASTM D790
Flexural Strength	79.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact - Across Flow (23°C, 3.18 mm, Compression Molded)	1300	J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226
23°C ³	71.2	J/cm	
23°C ⁴	133	J/cm	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Annealed ⁵	74.8	°C	
1.8 MPa, Unannealed, 3.18 mm	72.8	°C	
CLTE - Flow	6.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity (1.22 mm)	4.7E+14	ohms	ASTM D257
Volume Resistivity (1.22 mm)	7.7E+15	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.370 mm, white	HB		
0.750 mm, all colors	V-0		
2.00 mm, white	5VA		
Extrusion	Nominal Value	Unit	
Melt Temperature	193 to 210	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		
3.	Procedure A, C.125 Dart		
4.	Procedure B, C.125 Dart		
5.	conditioned @ 50 deg.C		

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