

Geon™ Vinyl Rigid Extrusion 87554E

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Rigid Extrusion 87554E is a rigid polyvinyl chloride product. It can be processed by extrusion and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

Features include:

flame retardant/rated flame

Impact resistance

General Information			
UL YellowCard	E41877-102605063		
Features	Impact resistance, high		
	General		
Uses	General		
	Profile		
Appearance	Frost white		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
PVC Cell Classification	13343		ASTM D1784
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	81		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (25°C, 3.28 mm)	2600	MPa	ASTM D638
Tensile Strength ² (Yield, 25°C, 3.28mm)	44.7	MPa	ASTM D638
Flexural Modulus ³ (25°C)	2720	MPa	ASTM D790
Flexural Strength ⁴ (25°C)	80.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.33mm, molded)	180	J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226
23°C, 3.35 mm ⁵	> 89.0	J/cm	ASTM D4226
23°C, 3.35 mm ⁶	> 89.0	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 12.9mm, injection molding	72.6	°C	ASTM D648
0.45 MPa, annealing, 13.0mm	73.1	°C	ASTM D648

1.8 MPa, not annealed, 12.9mm	63.7	°C	ASTM D648
1.8 MPa, annealing, 13.0mm, injection molding	68.8	°C	ASTM D648
CLTE - Flow (-30 to 30°C)	7.1E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Test Method	
Flame Rating		UL 94	
1.5 mm, ALL	V-0	UL 94	
2.0 mm, ALL	5VB	UL 94	
2.3 mm, ALL	5VA	UL 94	

Additional Information

Note: Data generated from testing of production material, lot # 5267654.

Extrusion	Nominal Value	Unit
Melt Temperature	182 - 193	°C

NOTE

1. Type 1, 5.1 mm/min
2. Type 1, 5.1 mm/min
3. 13 mm/min
4. 13 mm/min
5. Program A, C.125 Dart
6. Program B, C.125 Dart

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