

Geon™ Vinyl Rigid Extrusion 87416

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Rigid Extrusion 87416 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. Geon™ Vinyl Rigid Extrusion 87416 applications include automotive industry, building applications and outdoor applications.

Features include:

flame retardant/rated flame

Impact resistance

good weather resistance

General Information			
UL YellowCard	E41877-234194		
Features	Impact resistance, high		
	Good weather resistance		
Uses	Doors and Windows		
	Application in Automobile Field		
	Outdoor application		
	Profile		
Agency Ratings	AAMA 303		
Appearance	Available colors		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
PVC Cell Classification	1-31432-33		ASTM D4216
PVC Cell Classification	13344		ASTM D1784
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2480	MPa	ASTM D638
Tensile Strength ² (Yield)	44.1	MPa	ASTM D638
Flexural Modulus	2960	MPa	ASTM D790
Flexural Strength	84.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
Transverse flow: 23°C, 3.18mm, molded	160	J/m	ASTM D256A
Flow: 23°C, 3.18mm, molded	150	J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226

23°C ³	53.4	J/cm	ASTM D4226
23°C ⁴	178	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	72.8	°C	ASTM D648
CLTE - Flow	6.1E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (0.749 mm, ALL)	V-0		UL 94
CSA Flammability ⁵ (980.4 µm)	V-0		
AAMA 303	Pass		ASTM D4726
Ease of Sizing	Acceptable		
Additional Information	Nominal Value		Test Method
注释:分档是采用注塑模制样品进行缺口摆锤冲击试验确定的.			
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.	Procedure A, C.125 Throwing		
4.	Procedure B, C.125 Throwing		
5.	All colors		

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