

Geon™ Vinyl Rigid Extrusion 87771

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Rigid Extrusion 87771 is a rigid polyvinyl chloride product. It can be processed by extrusion or profile extrusion molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Geon™ Vinyl Rigid Extrusion 87771 applications include architectural applications and outdoor applications.

General Information			
Uses	Doors and Windows		
	Outdoor application		
	Profile		
Agency Ratings	AAMA 303		
Forms	Particle		
Processing Method	Extrusion		
	Profile extrusion molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
PVC Cell Classification	1-41434-33		ASTM D4216

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	84		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2720	MPa	ASTM D638
Tensile Strength ² (Yield)	46.0	MPa	ASTM D638
Flexural Modulus	2740	MPa	ASTM D790
Flexural Strength	80.6	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
23°C, 3.18mm, injection molding	1200	J/m	ASTM D256A
Transverse flow: 23°C, 3.18mm, molded	220	J/m	ASTM D256A
Flow: 23°C, 3.18mm, molded	680	J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226
23°C ³	64.9	J/cm	ASTM D4226
23°C ⁴	159	J/cm	ASTM D4226

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	71.7	°C	ASTM D648
CLTE - Flow	6.7E-5	cm/cm/°C	ASTM D696

Additional Information	Nominal Value
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Ease of Sizing	Excellent	
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.		
Injection	Nominal Value	Unit
Processing (Melt) Temp	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	

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