

## PolyOne Geon™ Vinyl Rigid Extrusion 87771 Polyvinyl Chloride, Rigid (PVC, Rigid)

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Rigid Grade

### Material Notes:

The Cell Classification was determined using the notched Izod test with injection molded samples. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Geon-Vinyl-Rigid-Extrusion-87771-Polyvinyl-Chloride-Rigid-PVC-Rigid.php](http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Extrusion-87771-Polyvinyl-Chloride-Rigid-PVC-Rigid.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	84	84	15 sec; ASTM D2240
Tensile Strength, Yield	46.0 MPa	6670 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.72 GPa	395 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	80.6 MPa	11700 psi	ASTM D790
Flexural Modulus	2.74 GPa	397 ksi	ASTM D790
Izod Impact, Notched	2.20 J/cm	4.12 ft-lb/in	Compression Molded, Across Flow; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
	6.80 J/cm	12.7 ft-lb/in	Compression Molded, Flow; ASTM D256A
Dart Drop Total Energy	12.0 J/cm	22.5 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Dart Drop Total Energy	64.9 J/cm	0.122 ft-lb/mil	Procedure A, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Dart Drop Total Energy	159 J/cm	0.298 ft-lb/mil	Procedure B, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	67.0 µm/m-°C	37.2 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	71.7 °C	161 °F	Unannealed; ASTM D648

Thermal Properties	@Thickness 3.18 mm Metric	@Thickness 0.125 in English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	182 - 193 °C	360 - 379 °F	

Descriptive Properties	Value	Comments
Agency Ratings	AAMA 303	
Ease of Sizing	Excellent	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	
	Profile Extrusion	
PVC Cell Classification	1-41434-33	ASTM D4216
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Outdoor Applications	
	Profiles	
	Windows & Doors	

## Contact Songhan Plastic Technology Co.,Ltd.

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