

## PolyOne Geon™ Vinyl Rigid Extrusion 84110 Polyvinyl Chloride, Rigid (PVC, Rigid)

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

### Material Notes:

Note: NSF listings are obtained on specific colors. Contact PolyOne for the latest listing of approved colors for this product. Note: 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-84110-Polyvinyl-Chloride-Rigid-PVC-Rigid.php](http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Extrusion-84110-Polyvinyl-Chloride-Rigid-PVC-Rigid.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	15 sec; ASTM D2240
Tensile Strength, Yield	51.2 MPa	7430 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.77 GPa	402 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	86.2 MPa	12500 psi	ASTM D790
Flexural Modulus	2.83 GPa	410 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm	0.599 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	
	3.20 J/cm	5.99 ft-lb/in	Injection Molded; ASTM D256A
Dart Drop Total Energy	5.70 J/cm	10.7 ft-lb/in	Compression Molded, Flow; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Dart Drop Total Energy	60.9 J/cm	0.114 ft-lb/mil	Procedure A, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Dart Drop Total Energy	86.3 J/cm	0.162 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	68.0 µm/m-°C	37.8 µin/in-°F	ASTM D696

Thermal Properties Deflection Temperature at 1.8 MPa (204 psi)	Metric 68.9 °C	English 156 °F	Comments None; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	ALL; UL 94

Processing Properties	Metric	English	Comments
Melt Temperature	182 - 193 °C	360 - 379 °F	

Descriptive Properties	Value	Comments
Agency Ratings	FDA Food Contact, Unspecified Rating	
	NSF 51	
	NSF 61	
Appearance	Clear/Transparent	
Features	Food Contact Acceptable	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	
PVC Cell Classification	14453	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Film	
	Profiles	
	Sheet	

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