

## PolyOne Geon™ Vinyl Rigid Extrusion L5880 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-L5880-Polyvinyl-Chloride-Rigid-PVC-Rigid.php](http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Extrusion-L5880-Polyvinyl-Chloride-Rigid-PVC-Rigid.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	81	81	15 sec; ASTM D2240
Tensile Strength, Yield	41.9 MPa	6080 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.62 GPa	380 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	70.4 MPa	10200 psi	ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	ASTM D790
Izod Impact, Notched	8.20 J/cm	15.4 ft-lb/in	Compression Molded, Flow; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
	11.0 J/cm	20.6 ft-lb/in	Compression Molded, Across 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	
	49.8 J/cm	0.0933 ft-lb/mil	Procedure B, C.125; ASTM D4226
Dart Drop Total Energy	49.8 J/cm	0.0933 ft-lb/mil	Procedure A, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	Unannealed; ASTM D648

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

Descriptive Properties	Value	Comments
Flame Rating	VTM-0	UL 94; 0.250 mm, ALL
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Sheet Extrusion	
	Thermoforming	
PVC Cell Classification	16344	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	

## Contact Songhan Plastic Technology Co.,Ltd.

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