

## PolyOne Geon™ Vinyl Rigid Extrusion L0189 Polyvinyl Chloride, Rigid (PVC, Rigid)

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

### Material Notes:

All ingredients used in the formulation of this compound are listed in the United States FDA Code of Federal Regulations, Title 21. The only restriction is that the plasticizer is For foods of high water content only. This statement is only an overview of the FDA listings for this product. It is the customer's responsibility to ensure that the compound is suitable for its intended application. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Geon-Vinyl-Rigid-Extrusion-L0189-Polyvinyl-Chloride-Rigid-PVC-Rigid.php](http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Extrusion-L0189-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	84	84	15 sec; ASTM D2240
Tensile Strength, Yield	50.1 MPa	7270 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.70 GPa	392 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.68 GPa	389 ksi	ASTM D790
Izod Impact, Notched	1.10 J/cm	2.06 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	
	4.30 J/cm	8.06 ft-lb/in	Compression Molded, Flow; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
	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	67.6 J/cm	0.127 ft-lb/mil	Procedure A, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	178 J/cm	0.333 ft-lb/mil	Procedure B, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
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Thermal Properties to Flow	Metric <sup>m/m-°C</sup>	English <sup>in-°F</sup>	Comments
Deflection Temperature at 1.8 MPa (264 psi)	67.8 °C @Thickness 3.18 mm	154 °F @Thickness 0.125 in	Unannealed; ASTM D648

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

Descriptive Properties	Value	Comments
Agency Ratings	FDA Food Contact, Unspecified Rating	
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	16443	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Piping	
	Profiles	

## Contact Songhan Plastic Technology Co.,Ltd.

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