

## PolyOne Geon™ Vinyl Rigid Extrusion 8700X Polyvinyl Chloride, Rigid (PVC, Rigid)

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

### Material Notes:

Note: Automotive OEM approval(s). 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-8700X-Polyvinyl-Chloride-Rigid-PVC-Rigid.php](http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Extrusion-8700X-Polyvinyl-Chloride-Rigid-PVC-Rigid.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	79	79	15 sec; ASTM D2240
Tensile Strength, Yield	42.1 MPa	6110 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.48 GPa	360 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	2.48 GPa	360 ksi	ASTM D790
Izod Impact, Notched	10.0 J/cm	18.7 ft-lb/in	Compression Molded, Flow; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
	11.0 J/cm	20.6 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	Compression Molded, Across Flow; ASTM D256A
Dart Drop Total Energy	53.4 J/cm	0.100 ft-lb/mil	Procedure A, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	53.4 J/cm	0.100 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

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	@Thickness 3.18 mm	@Thickness 0.125 in	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	ALL; UL 94
	@Thickness 0.749 mm	@Thickness 0.0295 in	
	V-0	V-0	All Colors
	@Thickness 0.9195 mm	@Thickness 0.03620 in	
	5VA	5VA	All Colors
	@Thickness 1.58 mm	@Thickness 0.0622 in	
	5VA	5VA	ALL; UL 94
	@Thickness 1.90 mm	@Thickness 0.0748 in	

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

Descriptive Properties	Value	Comments
Agency Ratings	NSF 51	
Automotive Specifications	GM GM7001M (PVC)	
Ease of Sizing	Excellent	
Features	Good Dimensional Stability	
	Good Melt Strength	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	
PVC Cell Classification	16344	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	

Descriptive Properties	South America Value	Comments
Uses	Automotive Applications	
	Beltline Moldings	
	Profiles	

## Contact Songhan Plastic Technology Co.,Ltd.

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