

PolyOne Geon™ Vinyl Rigid Extrusion 87759 Polyvinyl Chloride, Rigid (PVC, Rigid)

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

Material Notes:

Note: Finished part testing is required for ASTM E-84 certification. 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-87759-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	15 sec; ASTM D2240
Tensile Strength, Yield	40.6 MPa	5890 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.90 GPa	421 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	69.6 MPa	10100 psi	ASTM D790
Flexural Modulus	2.71 GPa	393 ksi	ASTM D790
Izod Impact, Notched	1.90 J/cm	3.56 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
	2.00 J/cm	3.75 ft-lb/in	
Dart Drop Total Energy	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	Compression Molded, Across Flow; ASTM D256A
	2.30 J/cm	4.31 ft-lb/in	
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
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	
	66.7 J/cm	0.125 ft-lb/mil	
Dart Drop Total Energy	@Temperature 23.0 °C	@Temperature 73.4 °F	Procedure B, C.125; ASTM D4226
	66.7 J/cm	0.125 ft-lb/mil	
	@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

Thermal Properties (204 psi)	Metric	English	Comments
Deflection Temperature at 1.8 MPa	67.8 °C	154 °F	Comments; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	
Flammability, UL94	V-0	V-0	ALL; UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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

Descriptive Properties	Value	Comments
Agency Ratings	ASTM E 84	
Ease of Sizing	Good	
Features	Low Smoke Emission	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	
PVC Cell Classification	13253	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Profiles	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China