

PolyOne Geon™ Vinyl Rigid Extrusion L6180 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-L6180-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	15 sec; ASTM D2240
Tensile Strength, Yield	52.7 MPa	7640 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.68 GPa	389 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	92.5 MPa	13400 psi	ASTM D790
Flexural Modulus	2.74 GPa	397 ksi	ASTM D790
Izod Impact, Notched	0.160 J/cm	0.300 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
	0.160 J/cm	0.300 ft-lb/in	Compression Molded, Flow; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
	0.210 J/cm	0.393 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	
Dart Drop Total Energy	87.6 J/cm	0.164 ft-lb/mil	Procedure A, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	149 J/cm	0.279 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	72.0 µm/m-°C	40.0 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	75.6 °C	168 °F	Unannealed; ASTM D648

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

Descriptive Properties	Value	Comments
Appearance	Brown	
Features	Good Weather Resistance	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	
PVC Cell Classification	1-02453-43	ASTM D4216
	11444	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Building Materials	
	Outdoor Applications	
	Profiles	
	Windows & Doors	

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