

PolyOne Geon™ Vinyl Rigid Extrusion L6256 Polyvinyl Chloride, Rigid (PVC, Rigid)

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

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Extrusion-L6256-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	15 sec; ASTM D2240
Tensile Strength, Yield	42.3 MPa	6140 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	3.06 GPa	444 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.66 GPa	386 ksi	ASTM D790
Izod Impact, Notched	1.20 J/cm	2.25 ft-lb/in	Compression Molded, all complete breaks; ASTM D256A
	@Thickness 3.18 mm, Temperature -18.0 °C	@Thickness 0.125 in, Temperature -0.400 °F	
	8.80 J/cm	16.5 ft-lb/in	
Izod Impact, Notched	@Thickness 3.18 mm, Temperature 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	Compression Molded, all hinge breaks; ASTM D256A
	12.0 J/cm	22.5 ft-lb/in	
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Dart Drop, Total Energy	19.8 J	14.6 ft-lb	brittle, 3.30 m/sec; ASTM D3763
	@Thickness 1.85 mm, Temperature -18.0 °C	@Thickness 0.0728 in, Temperature -0.400 °F	
	21.9 J	16.2 ft-lb	
Dart Drop, Total Energy	@Thickness 1.85 mm, Temperature 0.000 °C	@Thickness 0.0728 in, Temperature 32.0 °F	brittle, 3.30 m/sec; ASTM D3763
	25.1 J	18.5 ft-lb	
	@Thickness 1.85 mm, Temperature 23.0 °C	@Thickness 0.0728 in, Temperature 73.4 °F	
Dart Drop, Total Energy			ductile, 3.30 m/sec; ASTM D3763

Mechanical Properties	66.7 J/cm Metric	0.125 ft-lb/mil English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	A, C.125; ASTM D4226
	>= 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
CTE, linear, Parallel to Flow	63.0 µm/m-°C	35.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	77.7 °C	172 °F	Unannealed; ASTM D648
	80.0 °C	176 °F	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	78.0 °C	172 °F	Annealed; ASTM D648
	74.5 °C	166 °F	Unannealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	
Flammability, UL94	V-0	V-0	ALL; UL 94
	@Thickness 0.701 mm	@Thickness 0.0276 in	
	5VA	5VA	ALL; UL 94
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Melt Temperature	177 - 188 °C	351 - 370 °F	

Descriptive Properties	Value	Comments
Agency Ratings	NSF 51	
	UL 94	
Ease of Sizing	Good	
Features	Good Surface Finish	
	High Flow	
Forms	Cube	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	

PVC Cell Classification Descriptive Properties	16364 Value	ASTM D1784 Comments
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Profiles	

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