

PolyOne Geon™ Vinyl Rigid Extrusion 87727-0284 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. Physical property testing was based on the Geon® 87727 Trans 0020. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Extrusion-87727-0284-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	85	85	15 sec; ASTM D2240
Tensile Strength, Yield	56.9 MPa	8250 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.87 GPa	416 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	93.5 MPa	13600 psi	ASTM D790
Flexural Modulus	2.92 GPa	424 ksi	ASTM D790
Izod Impact, Notched	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	
	0.350 J/cm	0.656 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	
	2.10 J/cm	3.93 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	66.3 J/cm	0.124 ft-lb/mil	Procedure A, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	175 J/cm	0.328 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	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	61.1 °C	142 °F	Comments: ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	
Flammability, UL94	5VA	5VA	TP; 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
Appearance	Translucent	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	
PVC Cell Classification	11553	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Capstock	
	Profiles	
	Vertical Blinds	

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