

PolyOne Geon™ Vinyl Rigid Extrusion 87358 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-87358-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	81	81	15 sec; ASTM D2240
Tensile Strength, Yield	46.5 MPa	6740 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.56 GPa	371 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	78.6 MPa	11400 psi	ASTM D790
Flexural Modulus	2.74 GPa	397 ksi	ASTM D790
Izod Impact, Notched	3.30 J/cm	6.18 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	
	4.20 J/cm	7.87 ft-lb/in	Compression Molded, Flow; ASTM D256A
Dart Drop Total Energy	5.80 J/cm	10.9 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	63.2 J/cm	0.118 ft-lb/mil	Procedure A, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Dart Drop Total Energy	199 J/cm	0.373 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	74.0 µm/m-°C	41.1 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	60.6 °C	141 °F	Unannealed; ASTM D648

Thermal Properties	@Thickness 3.18 mm Metric	@Thickness 0.125 in English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	188 - 193 °C	370 - 379 °F	

Descriptive Properties	Value	Comments
Features	High Gloss	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Sheet Extrusion	
	Thermoforming	
PVC Cell Classification	15343	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	

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