

PolyOne Geon™ Vinyl Rigid Extrusion 87548 AS Polyvinyl Chloride, Rigid (PVC, Rigid)

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

Material Notes:

A transparent PVC profile compound, with reduced surface resistivity, resulting in unlikely attraction and adhesion of dust. Actual results on surface resistivity = 1.3×10^{15} . Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Extrusion-87548-AS-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	15 sec; ASTM D2240
Tensile Strength, Yield	53.4 MPa	7750 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.79 GPa	405 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	88.5 MPa	12800 psi	ASTM D790
Flexural Modulus	2.84 GPa	412 ksi	ASTM D790
Izod Impact, Notched	1.40 J/cm	2.62 ft-lb/in	Compression Molded, Flow; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
	5.70 J/cm	10.7 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
	11.0 J/cm	20.6 ft-lb/in	
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Dart Drop Total Energy	52.0 J/cm	0.0974 ft-lb/mil	Injection Molded; ASTM D256A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	173 J/cm	0.324 ft-lb/mil	
Dart Drop Total Energy	@Temperature 23.0 °C	@Temperature 73.4 °F	Procedure A, C.125; ASTM D4226
	173 J/cm	0.324 ft-lb/mil	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Dart Drop Total Energy	173 J/cm	0.324 ft-lb/mil	Procedure B, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	173 J/cm	0.324 ft-lb/mil	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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

Descriptive Properties	Value	Comments
Agency Ratings	FDA Food Contact, Unspecified Rating	
Appearance	Clear/Transparent	
Features	High Impact Resistance	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Profiles	

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