

PolyOne Geon™ Vinyl Rigid Extrusion 8700A Polyvinyl Chloride, Rigid (PVC, Rigid)

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

Material Notes:

Note: Automotive OEM approval(s). Note: NSF listings are obtained on specific colors. Contact PolyOne for the latest listing of approved colors for this product. Note: 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-8700A-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, Rockwell R	111	111	ASTM D785
Hardness, Shore D	78	78	15 sec; ASTM D2240
Tensile Strength, Yield	42.7 MPa	6190 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.69 GPa	390 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	2.62 GPa	380 ksi	ASTM D790
Compressive Strength	55.8 MPa	8090 psi	ASTM D695
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	Compression Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature -18.0 °C	@Thickness 0.125 in, Temperature -0.400 °F	
	0.850 J/cm	1.59 ft-lb/in	
	@Thickness 3.18 mm, Temperature 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	Compression Molded; ASTM D256A
	9.10 J/cm	17.0 ft-lb/in	
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Dart Drop Total Energy	35.6 J/cm	0.0667 ft-lb/mil	Procedure A, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	35.6 J/cm	0.0667 ft-lb/mil	
	@Temperature 23.0 °C	@Temperature 73.4 °F	Procedure B, C.125; ASTM D4226

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	67.0 µm/m-°C	37.2 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	72.8 °C	163 °F	Unannealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	
Flammability, UL94	V-0	V-0	ALL; UL 94
	@Thickness 0.711 mm	@Thickness 0.0280 in	
	V-0	V-0	All Colors
	@Thickness 0.870 mm	@Thickness 0.0343 in	
	5VA	5VA	ALL; UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.3	3.3	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.9	3.9	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dielectric Strength	27.0 kV/mm	686 kV/in	ASTM D149
Dissipation Factor	0.029	0.029	24 hr; ASTM D150
	@Frequency 60.0 Hz, Temperature 30.0 °C	@Frequency 60.0 Hz, Temperature 86.0 °F	
	0.040	0.040	24 hr; ASTM D150
	@Frequency 1000 Hz, Temperature 30.0 °C	@Frequency 1000 Hz, Temperature 86.0 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	179 - 182 °C	354 - 360 °F	

Descriptive Properties	Value	Comments
Agency Ratings	NSF 51	
	NSF 61	
Automotive Specifications	CHRYSLER MS-DC28 Type B CPN2647 Color: Black	
	GM GM7001M (PVC)	

Ease of Sizing

Descriptive Properties	Excellent Value	Comments
Features	General Purpose	
	Good Dimensional Stability	
	Good Melt Strength	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	
PVC Cell Classification	16344	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Automotive Applications	
	Beltline Moldings	
	General Purpose	
	Profiles	

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