

## PolyOne Geon™ Vinyl Rigid Molding M5200 Natural Polyvinyl Chloride, Rigid (PVC, Rigid)

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

### Material Notes:

NOTE: Geon weatherable compounds contain pigments and ingredients that, along with processing conditions, contribute to the weathering performance of the PVC compounds. The weathering performance of unpigmented compounds or so-called natural compounds generally is inferior to pigmented compounds. Unpigmented weatherable compounds may also contain non-pigment ingredients which can interact unpredictably with pigments to produce unexpected weathering results. Therefore, in applications where processors or customers would like to use an unpigmented compound, or add their own pigment package, it is the customer's responsibility to determine whether or not the weathering performance after pigmentation is acceptable in their specific end-use application. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Geon-Vinyl-Rigid-Molding-M5200-Natural-Polyvinyl-Chloride-Rigid-PVC-Rigid.php](http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Molding-M5200-Natural-Polyvinyl-Chloride-Rigid-PVC-Rigid.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Spiral Flow	61.0 cm	24.0 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	15 sec; ASTM D2240
Tensile Strength, Yield	44.8 MPa	6500 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	50 %	50 %	Type I, 51 mm/min; ASTM D638
Tensile Modulus	2.48 GPa	360 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	72.4 MPa	10500 psi	ASTM D790
Flexural Modulus	2.55 GPa	370 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature -18.0 °C	@Thickness 0.125 in, Temperature -0.400 °F	
	6.40 J/cm	12.0 ft-lb/in	
	@Thickness 3.18 mm, Temperature 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	Injection Molded; 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	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	76.1 °C	169 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
	77.8 °C	172 °F	Annealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
Deflection Temperature at 1.8 MPa (264 psi)	72.2 °C	162 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
	76.1 °C	169 °F	Annealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	

Processing Properties	Metric	English	Comments
Melt Temperature	199 - 210 °C	390 - 410 °F	

Descriptive Properties	Value	Comments
Features	General Purpose	
	High Impact Resistance	
	Medium Flow	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Construction Applications	
	General Purpose	
	Outdoor Applications	

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