

PolyOne Geon™ Vinyl Rigid Molding M4910 (USP CLASS VI for TRANS 9494 only) Polyvinyl Chloride, Rigid (PVC, Rigid)

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

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Molding-M4910-USP-CLASS-VI-for-TRANS-9494-only-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Spiral Flow	73.7 cm	29.0 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	ASTM D2240
Tensile Strength, Yield	54.5 MPa	7900 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	19 %	19 %	Type I, 51 mm/min; ASTM D638
Tensile Modulus	2.91 GPa	422 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	85.5 MPa	12400 psi	ASTM D790
Flexural Modulus	2.83 GPa	410 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	
	0.800 J/cm	1.50 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	65.0 °C	149 °F	Annealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
	67.8 °C	154 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
	61.1 °C	142 °F	

Deflection Temperature at 1.8 MPa (0.24 psi) Thermal Properties	Metric @ Thickness 6.35 mm	English @ Thickness 0.250 in	Unannealed; ASTM D648 Comments
	62.2 °C @Thickness 6.35 mm	144 °F @Thickness 0.250 in	Annealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	199 - 204 °C	390 - 399 °F	

Descriptive Properties	Value	Comments
Agency Ratings	USP Class VI	
Appearance	Clear/Transparent	
Features	Medium Flow	
	Radiation (Gamma) Resistant	
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	

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