

PolyOne Geon™ SF M7120 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-SF-M7120-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	81	81	ASTM D2240
Tensile Strength, Yield	47.6 MPa	6900 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	13 %	13 %	Type I, 51 mm/min; ASTM D638
Tensile Modulus	2.53 GPa	367 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	80.7 MPa	11700 psi	ASTM D790
Flexural Modulus	2.92 GPa	424 ksi	ASTM D790
Izod Impact, Notched	6.40 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	12.0 ft-lb/in @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)	61.1 °C	142 °F	Unannealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	
	67.8 °C	154 °F	Annealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	
Deflection Temperature at 1.8 MPa (264 psi)	55.6 °C	132 °F	Unannealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	
	63.3 °C	146 °F	Annealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	

Descriptive Properties	Value	Comments
Features	High Flow	

Descriptive Properties	High Impact Resistance Value	Comments
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Decorative Parts	
	General Purpose	
	Outdoor Applications	

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