

Geon™ SF M7020

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ SF M7020 is a Rigid Polyvinyl Chloride product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Geon™ SF M7020 include wire & cable and medical/healthcare.

Characteristics include:

- Flame Rated
- RoHS Compliant
- High Flow
- Impact Resistant

General Information			
Features	General Purpose		
	High Flow		
	High Impact Resistance		
Uses	Medical Devices		
Agency Ratings	UL 94 5VA		
	UL 94 V-0		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Spiral Flow	119	cm	
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	79		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2280	MPa	ASTM D638
Tensile Strength ² (Yield)	41.4	MPa	ASTM D638
Tensile Elongation ³ (Break)	35	%	ASTM D638
Flexural Modulus	2310	MPa	ASTM D790
Flexural Strength	62.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
-18°C, 3.18 mm, Injection Molded	110	J/m	
0°C, 3.18 mm, Injection Molded	270	J/m	
23°C, 3.18 mm, Injection Molded	640	J/m	
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	67.2	°C	
0.45 MPa, Annealed, 3.18 mm	71.1	°C	
1.8 MPa, Unannealed, 3.18 mm	60.0	°C	
1.8 MPa, Annealed, 3.18 mm	70.0	°C	
RTI Elec	90.0	°C	UL 746
RTI Imp	85.0	°C	UL 746
RTI Str	90.0	°C	UL 746
Flammability	Nominal Value	Test Method	
	V-0		

Flame Rating (1.80 mm, ALL)	5VA	UL 94
CSA Flammability ⁴ (1.60 mm)	5VA	

Injection	Nominal Value	Unit
Processing (Melt) Temp	199 to 210	°C

NOTE	
1.	Type I, 51 mm/min
2.	Type I, 51 mm/min
3.	Type I, 51 mm/min
4.	All Colors

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