

Geon™ Fiberloc™ 80520

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Fiberloc™ 80520 is a Rigid Polyvinyl Chloride product filled with 20% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Geon™ Fiberloc™ 80520 include appliances, business/office goods, construction applications and electrical/electronic applications.

Characteristics include:

Flame Rated

High Flow

General Information			
UL YellowCard	E41877-234159		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	General Purpose		
	High Flow		
Uses	Appliances		
	Business Equipment		
	Construction Applications		
	Electrical/Electronic Applications		
	General Purpose		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Spiral Flow	78.7	cm	
Molding Shrinkage - Flow	0.050 to 0.15	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	84		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	6210	MPa	ASTM D638
Tensile Strength ² (Yield)	79.3	MPa	ASTM D638
Tensile Elongation ³ (Break)	3.0	%	ASTM D638
Flexural Modulus	5520	MPa	ASTM D790
Flexural Strength	121	MPa	ASTM D790
Poisson's Ratio	0.43		ASTM E132
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	110	J/m	ASTM D256A
Unnotched Izod Impact ⁴ (23°C, 3.18 mm)	430	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Annealed, 6.35 mm)	76.1	°C	ASTM D648
CLTE - Flow	2.7E-5	cm/cm/°C	ASTM D696
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	50.0	°C	UL 746
Flammability	Nominal Value	Test Method	

V-0

Flame Rating (1.47 mm, ALL)	5VA	UL 94
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Additional Information	Nominal Value
	5VA

CSA Flammability ⁵ (1.63 mm)	V-0
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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.	Injection Molded
5.	All Colors

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