

Geon™ Fiberloc™ 83520

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™Fiberloc™83520 is a rigid polyvinyl chloride product, which contains a 20% glass fiber reinforced material. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Geon™Fiberloc™83520 applications include outdoor applications and architectural applications.

Features include:

flame retardant/rated flame

high liquidity

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	High liquidity		
	General		
Uses	Architectural application field		
	Outdoor application		
	General		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792
Spiral Flow	76.2	cm	
Molding Shrinkage - Flow	0.050 - 0.15	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	83		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	6550	MPa	ASTM D638
Tensile Strength ² (Yield)	65.5	MPa	ASTM D638
Tensile Elongation ³ (Break)	2.0	%	ASTM D638
Flexural Modulus	6210	MPa	ASTM D790
Flexural Strength	103	MPa	ASTM D790
Poisson's Ratio	0.42		ASTM E132
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	64	J/m	ASTM D256A
Unnotched Izod Impact ⁴ (23°C, 3.18 mm)	320	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	50.0	°C	UL 746
Flammability	Nominal Value	Test Method	
	V-0		

Flame Rating (1.50 mm, ALL)	5VA	UL 94
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Additional Information

Note: Test results are based on natural formulation and may vary with pigmentation and fiber orientation. All materials should be tested and approved for each specific end-use application in the intended color.

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

NOTE

1. Type 1, 5.1 mm/min
2. Type 1, 5.1 mm/min
3. Type 1, 5.1 mm/min
4. Injection Molding

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