

Geon™ Fiberloc™ 81510

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Fiberloc™ 81510 is a Rigid Polyvinyl Chloride product filled with 10% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Plumbing/Piping/Potable Water.

Characteristics include:

Flame Rated

High Flow

General Information			
UL YellowCard	E41877-234160		
Filler / Reinforcement	Glass Fiber, 10% Filler by Weight		
Features	General Purpose		
	High Flow		
Uses	Fluid Handling		
	General Purpose		
Agency Ratings	NSF 61		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
Spiral Flow	94.0	cm	
Molding Shrinkage - Flow	0.050 to 0.15	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	86		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	5520	MPa	ASTM D638
Tensile Strength ² (Yield)	75.8	MPa	ASTM D638
Tensile Elongation ³ (Break)	2.0	%	ASTM D638
Flexural Modulus	5170	MPa	ASTM D790
Flexural Strength	117	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)	53	J/m	ASTM D256A
Unnotched Izod Impact ⁴ (23°C, 3.18 mm)	210	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	3.1E-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 (1.50 mm, ALL)	5VA	UL 94	
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		

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