PolyOne™

Geon™ Fiberloc™ 80510
Rigid Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight		
Features	• General Purpose	• High Flow	
Uses	• Appliances • Business Equipment	• Construction Applications • Electrical/Electronic Applications	• General Purpose
Forms	• Pellets		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.40	1.40	ASTM D792
Spiral Flow	35.0 in	88.9 cm	
Molding Shrinkage - Flow	5.0E-4 to 1.5E-3 in/in	0.050 to 0.15 %	ASTM D955

Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus [2]	600000 psi	4140 MPa	ASTM D638
Tensile Strength [2] (Yield)	9000 psi	62.1 MPa	ASTM D638
Tensile Elongation [2] (Break)	5.0 %	5.0 %	ASTM D638
Flexural Modulus	550000 psi	3790 MPa	ASTM D790
Flexural Strength	15000 psi	103 MPa	ASTM D790
Poisson's Ratio	0.44	0.44	ASTM E132

Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	2.0 ft·lb/in	110 J/m	
Unnotched Izod Impact [3]			ASTM D4812
73°F (23°C), 0.125 in (3.18 mm)	8.0 ft·lb/in	430 J/m	

Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	82	82	ASTM D2240

Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.250 in (6.35 mm)	169 °F	76.1 °C	
CLTE - Flow	2.2E-5 in/in/°F	4.0E-5 cm/cm/°C	ASTM D696
RTI Elec	122 °F	50.0 °C	UL 746
RTI Imp	122 °F	50.0 °C	UL 746
RTI Str	122 °F	50.0 °C	UL 746

Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.5 mm), ALL)	• V-0 • 5VA	• V-0 • 5VA	UL 94

Additional Information	Typical Value (English)	Typical Value (SI)
CSA Flammability [4] (64.0 mil (1.63 mm))	• V-0 • 5VA	• V-0 • 5VA

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	390 to 410 °F	199 to 210 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] Type I, 2.0 in/min (51 mm/min)

[3] Injection Molded

[4] All Colors

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