

Geon™ Vinyl Rigid Molding 87510

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Rigid Molding 87510 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™ Vinyl Rigid Molding 87510 include construction applications, electrical/electronic applications and wire & cable.

Characteristics include:

Flame Rated

Impact Resistant

General Information			
UL YellowCard	E41877-234195		
Features	General Purpose		
	High Impact Resistance		
	Medium Flow		
Uses	Construction Applications		
	Electrical/Electronic Applications		
	General Purpose		
	Telecommunications		
Appearance	Opaque		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Spiral Flow	71.1	cm	
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	86		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2760	MPa	ASTM D638
Tensile Strength ² (Yield)	42.7	MPa	ASTM D638
Tensile Elongation ³ (Break)	150	%	ASTM D638
Flexural Modulus	3000	MPa	ASTM D790
Flexural Strength	82.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	730	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	70.0	°C	ASTM D648
RTI Elec	85.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	85.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.70 mm, ALL	V-0		
1.80 mm, ALL	5VA		
CSA Flammability ⁴ (1.88 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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