

Geon™ Vinyl Rigid Molding 85891

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Rigid Molding 85891 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 85891 include outdoor applications and plumbing/piping/potable water.

Characteristics include:

Flame Rated

Impact Resistant

General Information			
UL YellowCard	E41877-101027222	E41877-234176	
Features	General Purpose		
	High Impact Resistance		
	Medium Flow		
Uses	Fluid Handling		
	General Purpose		
	Outdoor Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Spiral Flow	58.4	cm	
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Outdoor Suitability (All Colors)	f2		UL 746C
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	84		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2900	MPa	ASTM D638
Tensile Strength ² (Yield)	49.0	MPa	ASTM D638
Tensile Elongation ³ (Break)	26	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	82.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
0°C, 3.18 mm, Injection Molded	110	J/m	
23°C, 3.18 mm, Injection Molded	800	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed, 6.35 mm	71.1	°C	
0.45 MPa, Annealed, 6.35 mm	76.1	°C	
1.8 MPa, Unannealed, 6.35 mm	67.8	°C	
1.8 MPa, Annealed, 6.35 mm	72.2	°C	
RTI Elec	75.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	75.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.65 mm, ALL	V-0		
3.05 mm, ALL	5VA		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	199 to 204	°C	
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	51 mm/min		

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