

Geon™ Vinyl Rigid Molding M5240

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Rigid Molding M5240 is a Rigid Polyvinyl Chloride product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Geon™ Vinyl Rigid Molding M5240 include outdoor applications and construction applications.

Characteristics include:

Flame Rated

Impact Resistant

General Information			
UL YellowCard	E41877-234298		
Features	General Purpose		
	High Impact Resistance		
	Medium Flow		
Uses	Construction Applications		
	General Purpose		
	Outdoor Applications		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Spiral Flow	61.0	cm	
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Outdoor Suitability (All Colors)	f1		UL 746C
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	79		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2340	MPa	ASTM D638
Tensile Strength ² (Yield)	42.7	MPa	ASTM D638
Tensile Elongation ³ (Break)	45	%	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	71.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
-18°C, 3.18 mm, Injection Molded	160	J/m	
0°C, 3.18 mm, Injection Molded	370	J/m	
23°C, 3.18 mm, Injection Molded	750	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed, 6.35 mm	72.8	°C	
0.45 MPa, Annealed, 6.35 mm	77.8	°C	
1.8 MPa, Unannealed, 6.35 mm	71.1	°C	
1.8 MPa, Annealed, 6.35 mm	76.1	°C	
RTI Elec	90.0	°C	UL 746
RTI Imp	85.0	°C	UL 746
RTI Str	90.0	°C	UL 746
Flammability	Nominal Value	Test Method	
	V-0		

Flame Rating (1.60 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		

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