

Geon™ Vinyl Rigid Molding M5200

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Rigid Molding M5200 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 M5200 include construction applications and outdoor applications. Primary characteristic: impact resistant.

General Information			
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	1.40	g/cm ³	ASTM D792
Spiral Flow	61.0	cm	
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2480	MPa	ASTM D638
Tensile Strength ² (Yield)	44.8	MPa	ASTM D638
Tensile Elongation ³ (Break)	50	%	ASTM D638
Flexural Modulus	2550	MPa	ASTM D790
Flexural Strength	72.4	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	640	J/m	
23°C, 3.18 mm, Injection Molded	1100	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	76.1	°C	
0.45 MPa, Annealed, 6.35 mm	77.8	°C	
1.8 MPa, Unannealed, 6.35 mm	72.2	°C	
1.8 MPa, Annealed, 6.35 mm	77.8	°C	

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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