

Geon™ Vinyl Rigid Molding MP412

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

*UL VO and 5VA values are associated with Trans colors only.

General Information			
Features	Food Contact Acceptable		
	High Flow		
	High Impact Resistance		
Agency Ratings	FDA Food Contact, Unspecified Rating		
Appearance	Clear/Transparent		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Spiral Flow	81.3	cm	
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	83		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2620	MPa	ASTM D638
Tensile Strength ² (Yield)	47.6	MPa	ASTM D638
Tensile Elongation ³ (Break)	35	%	ASTM D638
Flexural Modulus	2480	MPa	ASTM D790
Flexural Strength	75.8	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	67.2	°C	
0.45 MPa, Annealed, 6.35 mm	71.1	°C	
1.8 MPa, Unannealed, 6.35 mm	67.2	°C	
1.8 MPa, Annealed, 6.35 mm	70.0	°C	
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	50.0	°C	UL 746
Flammability	Nominal Value		Test Method

Flame Rating			UL 94
1.19 mm, ALL	V-0		
1.47 mm, ALL	5VA		
Optical	Nominal Value	Unit	Test Method
Transmittance ⁴ (3180 μm)	76.0	%	ASTM D1003
Haze (3180 μm)	7.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	199 to 204	°C	
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	Type I, 51 mm/min		
4.	CIE Illuminant C		

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