# Geon<sup>™</sup> Vinyl Rigid Molding M3700

## Rigid Polyvinyl Chloride

### PolyOne Corporation

#### Message:

Geon<sup>™</sup> Vinyl Rigid Molding M3700 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<sup>™</sup> Vinyl Rigid Molding M3700 include plumbing/piping/potable water, appliances, business/office goods, construction applications and electrical/electronic applications. Characteristics include: Flame Rated High Flow

Impact Resistant

UL VellowCard E41877-234280   Features General Purpose   High Flow High Flow   Medium Inpact Resistance High Flow   Uses Applances   Business Equipment Construction Applications   Electrical/Electronic Applications Electrical/Electronic Applications   Electrical/Electronic Applications Electrical/Electronic Applications   Seneral Purpose Telecommunications   Forms Pellets   Processing Method Intertomodul   Specific Gravity 13 grav <sup>1</sup> Specific Gravity 12 or   Mindings Frikow Sittomodul Sittomodul   Guener Harches (Shore D) 9 Sittomodul   Gravite Hardness Sittomodul Mina   Tensile Engagin <sup>3</sup> (Reak) Sittomodul Sittomodul   Foresing Mediulus <sup>1</sup> 280 Mina Sittomodul   Specific Gravity 12 cm Sittomodul   Specific Gravity 12 Sittomodul Sittomodul   Gravita Methodulus Normal Value Vintomodul Sittomodul   Gravita M	General Information					
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Business Equipment Construction Applications   Construction Applications Electrical/Electronic Applications   General Purpose General Purpose   Tommonications Serveral Purpose   Agency Ratings NSF 51   NSF 51 Serveral Purpose   Forms Pellets   Processing Method Internomentations   Physical Norminal Value Monitologing   Specific Gravity 13 Gravita ASTM D792   Specific Gravity 12 orn Construction Monitologing   Hardness Nominal Value Unit Centendendic General Purpose   Gravite Hardness (Shore D) 7 Servert Monitologing General Purpose   Tensile Modulus 1 Qalon Constructions Monitologing General Purpose   Tensile Strongh 2 (Yeled) 32 Monitologing Monitologinginginginginginginginginginginginging		Medium Impact Resistance				
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Tensile Strength <sup>2</sup> (Yield)43.4MPaASTM D638Tensile Elongation <sup>3</sup> (Break)35%ASTM D638Flexural Modulus2480MPaASTM D790	Mechanical	Nominal Value	Unit	Test Method		
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Flexural Modulus 2480 MPa ASTM D790		43.4	MPa	ASTM D638		
	Tensile Elongation <sup>3</sup> (Break)	35	%	ASTM D638		
Flexural Strength71.0MPaASTM D790	Flexural Modulus	2480	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	27	J/m	
0°C, 3.18 mm, Injection Molded	110	J/m	
23°C, 3.18 mm, Injection Molded	370	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	72.2	°C	
0.45 MPa, Annealed, 6.35 mm	75.0	°C	
1.8 MPa, Unannealed, 6.35 mm	68.9	°C	
1.8 MPa, Annealed, 6.35 mm	72.8	°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
Flammability Flame Rating	Nominal Value		Test Method UL 94
	Nominal Value		
Flame Rating			
Flame Rating 1.50 mm, ALL	V-0		
Flame Rating 1.50 mm, ALL 1.80 mm, ALL	V-0		
Flame Rating 1.50 mm, ALL 1.80 mm, ALL CSA Flammability <sup>4</sup>	V-0 5VA		
Flame Rating 1.50 mm, ALL 1.80 mm, ALL CSA Flammability <sup>4</sup> 1.50 mm	V-0 5VA V-0	Unit	
Flame Rating 1.50 mm, ALL 1.80 mm, ALL CSA Flammability <sup>4</sup> 1.50 mm 1.57 mm	V-0 5VA V-0 5VA	Unit	
Flame Rating 1.50 mm, ALL 1.80 mm, ALL CSA Flammability <sup>4</sup> 1.50 mm 1.57 mm Injection	V-0 5VA V-0 5VA Nominal Value		
Flame Rating 1.50 mm, ALL 1.80 mm, ALL CSA Flammability <sup>4</sup> 1.50 mm 1.57 mm Injection Processing (Melt) Temp	V-0 5VA V-0 5VA Nominal Value		
Flame Rating 1.50 mm, ALL 1.80 mm, ALL CSA Flammability <sup>4</sup> 1.50 mm 1.57 mm Injection Processing (Melt) Temp NOTE	V-0 5VA V-0 5VA Nominal Value 199 to 210		
Flame Rating 1.50 mm, ALL 1.80 mm, ALL CSA Flammability <sup>4</sup> 1.50 mm 1.57 mm Injection Processing (Melt) Temp NOTE 1.	V-0 5VA V-0 5VA Nominal Value 199 to 210 Type I, 51 mm/min		

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