

Geon™ Vinyl Rigid Molding M4600

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Rigid Molding M4600 is a Rigid Polyvinyl Chloride product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Housings.

Characteristics include:

Flame Rated

High Flow

Impact Resistant

General Information			
UL YellowCard	E41877-234290		
Features	High Flow		
	Medium Impact Resistance		
Uses	Battery Cases		
Appearance	Clear/Transparent		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792
Spiral Flow	102	cm	
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	81		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	3170	MPa	ASTM D638
Tensile Strength ² (Yield)	55.2	MPa	ASTM D638
Tensile Elongation ³ (Break)	30	%	ASTM D638
Flexural Modulus	3030	MPa	ASTM D790
Flexural Strength	89.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	43	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	66.1	°C	
0.45 MPa, Annealed, 6.35 mm	70.0	°C	
1.8 MPa, Unannealed, 6.35 mm	62.8	°C	
1.8 MPa, Annealed, 6.35 mm	67.8	°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 (1.50 mm, Transparents)	V-0		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (3180 μm)	82.0	%	ASTM D1003
Haze (3180 μm)	4.0	%	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		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

