

# Aurora PVC AP1216 Series AAMA

Polyvinyl Chloride  
Aurora Plastics, Inc.

Message:

A high rate, midrange gloss, PVC powder, extrusion compound for exterior/interior applications.  
Typical test results for ASTM D-4216. This is a Rigid PVC formulation per the requirements of AAMA 303-05. Testing was performed on actual window parts with a wall thickness of 0.100". This material meets/exceeds cell class 1-20131-13\*\* as required in ASTM D-4726. Testing was performed by Dallas Laboratory, Inc., July 2006.

General Information			
Features	Glow in the Dark		
Forms	Powder		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44 to 1.48	g/cm <sup>3</sup>	ASTM D792
PVC Cell Classification	1-41343-12		ASTM D4216
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness <sup>1</sup> (Shore D, 22°C)	75 to 81		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (22°C)	2630	MPa	ASTM D638
Tensile Strength (Yield, 22°C)	45.1	MPa	ASTM D638
Flexural Modulus (22°C)	2650	MPa	ASTM D790
Flexural Strength (22°C)	80.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (22°C)	690	J/m	ASTM D256
Drop Impact Resistance			ASTM D4226
22°C, Extruded at 370 to 380° F melt temperature <sup>2</sup>	57.8	J/cm	
22°C, Extruded at 370 to 380° F melt temperature <sup>3</sup>	> 125	J/cm	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	69.4	°C	ASTM D648
CLTE - Flow (22°C)	4.5E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Burning Rate			ASTM D635
AEB	< 5.00		
ATB	< 5.00		
NOTE			
1.	Instantaneous		
2.	Procedure A		
3.	Procedure B		

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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

