

# Aurora PVC AP1085 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	Medium Gloss		
Forms	Powder		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45 to 1.47	g/cm <sup>3</sup>	ASTM D792
PVC Cell Classification	1-43344-12		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)	3010	MPa	ASTM D638
Tensile Strength (Yield, 22°C)	46.2	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)	980	J/m	ASTM D256
Drop Impact Resistance			ASTM D4226
22°C, Extruded at 370 to 380° F melt temperature <sup>2</sup>	> 120	J/cm	
22°C, Extruded at 370 to 380° F melt temperature <sup>3</sup>	> 120	J/cm	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	70.6	°C	ASTM D648
CLTE - Flow (22°C)	5.2E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Burning Rate			ASTM D635
(AEB)Avg.Extent of Burning	< 5.00	mm	
(ATB)Avg.Time of Burning : 2.54 mm	< 5.0	sec	
NOTE			
1.	Instantaneous		
2.	Procedure A		
3.	Procedure B		

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