

**AuroraTec™ AP5104BNT1000**

Aurora Material Solutions, LLC - Polyvinyl Chloride

**General Information**
**Product Description**

A general-purpose rigid PVC pellet, extrusion compound designed for applications requiring good melt strength, excellent color dispersion, and excellent physical properties.

Typical test results for ASTM D-4216. This is a rigid PVC formulation per the requirements of AAMA 303-08. This material meets/exceeds cell class 1-20131-13, as required in ASTM D-4726.

Note: Additional custom color matching is available upon request.

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Dispersible	• Good Melt Strength	
	• General Purpose	• Good Rigidity	
Uses	• General Purpose		
Agency Ratings	• AAMA 303 08	• ASTM D4726	• NSF STD-51
Appearance	• Colors Available		
Forms	• Pellets		
Processing Method	• Extrusion		

**Properties <sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	1.41		ASTM D792
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus	450000	psi	ASTM D638
Tensile Strength	6310	psi	ASTM D638
Flexural Modulus	474000	psi	ASTM D790
Flexural Strength	11100	psi	ASTM D790
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact	15	ft·lb/in	ASTM D256
Dart Impact <sup>2</sup>			ASTM D4226
Procedure A	2	in·lb/mil	
Procedure B	> 4	in·lb/mil	
<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Durometer Hardness (Shore D)	79		ASTM D2240
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (264 psi, Annealed)	160	°F	ASTM D648
CLTE - Flow	3.2E-5	in/in/°F	ASTM D696
RTI Elec			UL 746B
0.030 in	122	°F	
0.04 in	122	°F	
0.12 in	122	°F	
RTI Imp			UL 746B
0.030 in	122	°F	
0.04 in	122	°F	
0.12 in	122	°F	
RTI Str			UL 746B
0.030 in	122	°F	



0.04 in		122 °F	
0.12 in		122 °F	
<b>Flammability</b>		<b>Nominal Value</b>	<b>Unit</b>
Flame Rating			Test Method
0.030 in, All Colors		V-0	UL 94
0.04 in, All Colors	•	V-0	
	•	5VA	
0.12 in, All Colors	•	V-0	
	•	5VA	
Flammability Classification			IEC 60695-11-10, -20
0.030 in, All Colors		V-0	
0.04 in, All Colors	•	V-0	
	•	5VA	
0.12 in, All Colors	•	V-0	
	•	5VA	

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Min Failure

