

AuroraTec™ AP5104B

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 ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.41		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	450000	psi	ASTM D638
Tensile Strength	6310	psi	ASTM D638
Flexural Modulus	474000	psi	ASTM D790
Flexural Strength	11100	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	15	ft·lb/in	ASTM D256
Dart Impact ²			ASTM D4226
Procedure A	2	in·lb/mil	
Procedure B	> 4	in·lb/mil	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	79		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
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	
Flammability		Nominal Value	Unit
Flame Rating			UL 94
0.030 in, All Colors		V-0	
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

¹ Typical properties: these are not to be construed as specifications.

² Min Failure

