

Aurora PVC AP1250 Series AAMA

Rigid 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 | 1.44 to 1.48 | g/cm ³ | ASTM D792 |
| PVC Cell Classification | 1-42342-12 | | ASTM D4216 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness ¹ (Shore D, 22°C) | 75 to 81 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus (22°C) | 2530 | MPa | ASTM D638 |
| Tensile Strength (Yield, 22°C) | 45.3 | 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) | 1000 | J/m | ASTM D256 |
| Drop Impact Resistance | | | ASTM D4226 |
| 22°C, Extruded at 380 to 390° F melt temperature ² | 89.0 | J/cm | |
| 22°C, Extruded at 380 to 390° F melt temperature ³ | > 129 | J/cm | |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 70.0 | °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 | | |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

