

# Aurora PVC AP1143 Series

Polyvinyl Chloride  
Aurora Plastics, Inc.

Message:  
A high rate, midrange gloss, PVC powder, extrusion compound for exterior/interior applications.

| General Information                                           |               |                   |             |
|---------------------------------------------------------------|---------------|-------------------|-------------|
| Features                                                      | Medium Gloss  |                   |             |
| Forms                                                         | Powder        |                   |             |
| Processing Method                                             | Extrusion     |                   |             |
| Physical                                                      | Nominal Value | Unit              | Test Method |
| Specific Gravity                                              | 1.42 to 1.46  | g/cm <sup>3</sup> | ASTM D792   |
| Hardness                                                      | Nominal Value | Unit              | Test Method |
| Durometer Hardness <sup>1</sup> (Shore D, 22°C)               | 76 to 82      |                   | ASTM D2240  |
| Mechanical                                                    | Nominal Value | Unit              | Test Method |
| Tensile Modulus (22°C)                                        | 2620          | MPa               | ASTM D638   |
| Tensile Strength (Yield, 22°C)                                | 43.4          | 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)                                    | 220           | J/m               | ASTM D256   |
| Drop Impact Resistance                                        |               |                   | ASTM D4226  |
| 22°C, Extruded at 380 to 390° F melt temperature <sup>2</sup> | 66.7          | J/cm              |             |
| 22°C, Extruded at 380 to 390° F melt temperature <sup>3</sup> | 267           | J/cm              |             |
| Thermal                                                       | Nominal Value | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed)       | 72.8          | °C                | ASTM D648   |
| CLTE - Flow (22°C)                                            | 6.5E-5        | cm/cm/°C          | ASTM D696   |
| NOTE                                                          |               |                   |             |
| 1.                                                            | Instantaneous |                   |             |
| 2.                                                            | Procedure A   |                   |             |
| 3.                                                            | Procedure B   |                   |             |

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