

# Axiall PVC UV-6680

Rigid Polyvinyl Chloride

Axiall Corporation

## Message:

Georgia Gulf UV-6680 is a weatherable, high flow injection molding compound, specially formulated for outdoor UV exposure. This compound was designed to be used in various accessory parts, such as fence post caps, rain gutter parts, deck parts, etc.

| General Information   |                         |                   |             |
|---|-------------------------|-------------------|-------------|
| UL YellowCard   | E53006-243319           | E53006-243320     |             |
| Features  | Good UV resistance      |                   |             |
|   | High liquidity          |                   |             |
|   | Good weather resistance |                   |             |
| Uses  | Outdoor application     |                   |             |
| UL File Number  | E53006                  |                   |             |
| Forms   | Particle                |                   |             |
| Processing Method   | Injection molding       |                   |             |
| Physical  | Nominal Value           | Unit              | Test Method |
| Specific Gravity  | 1.40                    | g/cm <sup>3</sup> | ASTM D792   |
| Hardness  | Nominal Value           | Unit              | Test Method |
| Rockwell Hardness (R-Scale)   | 97                      |                   | ASTM D785   |
| Mechanical  | Nominal Value           | Unit              | Test Method |
| Tensile Modulus   | 2410                    | MPa               | ASTM D638   |
| Tensile Strength (Yield)  | 40.0                    | MPa               | ASTM D638   |
| Flexural Modulus  | 2140                    | MPa               | ASTM D790   |
| Flexural Strength   | 65.5                    | MPa               | ASTM D790   |
| Impact  | Nominal Value           | Unit              | Test Method |
| Notched Izod Impact   |                         |                   | ASTM D256   |
| -20°C, 3.18 mm  | 53                      | J/m               | ASTM D256   |
| 23°C, 3.18 mm   | 960                     | J/m               | ASTM D256   |
| Dart Drop Impact <sup>1</sup> (23°C)  | 14.7                    | J                 | ASTM D3029  |
| Thermal   | Nominal Value           | Unit              | Test Method |
| Deflection Temperature Under Load   |                         |                   | ASTM D648   |
| 0.45 MPa, not annealed  | 72.0                    | °C                | ASTM D648   |
| 1.8 MPa, not annealed   | 70.0                    | °C                | ASTM D648   |
| Flammability  | Nominal Value           | Unit              | Test Method |
| Oxygen Index  | 35                      | %                 | ASTM D2863  |
| Additional Information  |                         |                   |             |
| Flow Ratio (Distance/Wall Thickness), Georgia Gulf Test Method, 390 to 400°F: 230 |                         |                   |             |
| NOTE  |                         |                   |             |

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