

## AuroraGuard™ CPE 170232

Aurora Material Solutions, LLC - Chlorinated Polyethylene

### General Information

#### Product Description

A 105°C, oil resistant, CPE based jacketing material for applications like medium voltage tray cables.

#### General

|                   |                                          |                             |                 |
|-------------------|------------------------------------------|-----------------------------|-----------------|
| Material Status   | • Commercial: Active                     |                             |                 |
| Availability      | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Features          | • Oil Resistant                          |                             |                 |
| Uses              | • Electronic Cable Jacketing             | • Wire & Cable Applications |                 |
| Appearance        | • Colors Available                       |                             |                 |
| Processing Method | • Extrusion                              |                             |                 |

### Properties <sup>1</sup>

| Physical                                  | Nominal Value | Unit     | Test Method |
|-------------------------------------------|---------------|----------|-------------|
| Density / Specific Gravity                | 1.41          |          | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (175°C/21.6 kg) | 1.0           | g/10 min | ASTM D1238  |
| Mechanical                                | Nominal Value | Unit     | Test Method |
| Tensile Strength                          |               |          | ASTM D638   |
| --                                        | 1600          | psi      |             |
| 100% Strain                               | 1100          | psi      |             |
| Tensile Elongation (Break)                | 500           | %        | ASTM D638   |
| Hardness                                  | Nominal Value | Unit     | Test Method |
| Durometer Hardness                        |               |          | ASTM D2240  |
| Shore A, 15 sec                           | 91            |          |             |
| Shore D, 15 sec                           | 35            |          |             |
| Thermal                                   | Nominal Value | Unit     | Test Method |
| Brittleness Temperature                   | -58.0         | °F       | ASTM D746   |
| Deformation - 2kg (250°F)                 | 2.0           | %        | UL 2556     |
| Aging                                     | Nominal Value | Unit     | Test Method |
| Change in Tensile Strength                |               |          | UL 1581     |
| 212°F, 96 hr, in Oil                      | -23           | %        |             |
| 250°F, 168 hr                             | -14           | %        |             |
| Change in Ultimate Elongation             |               |          | UL 1581     |
| 212°F, 96 hr, in Oil                      | -5.0          | %        |             |
| 250°F, 168 hr                             | -10           | %        |             |
| Flammability                              | Nominal Value | Unit     | Test Method |
| Oxygen Index <sup>2</sup>                 | 36            | %        | ASTM D2863  |

### Notes

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

<sup>2</sup> Value is intended for reference only.

