



# FIREGUARD® 910A-68-NL

Teknor Apex Company - Flexible Polyvinyl Chloride

## General Information

### General

|                      |                                                                                                                                                                                                                                      |                                    |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Material Status      | • Commercial: Active                                                                                                                                                                                                                 |                                    |
| Availability         | • Africa & Middle East<br>• Asia Pacific                                                                                                                                                                                             | • Latin America<br>• North America |
| Features             | • Flame Retardant                                                                                                                                                                                                                    | • Low Smoke Emission               |
| Uses                 | • Insulation, Plenum Cable                                                                                                                                                                                                           | • Plenum Cable Jacketing           |
| Agency Ratings       | • UL 13<br>• UL 1424                                                                                                                                                                                                                 | • UL 444<br>• UL QMTT2             |
| Regulatory Statement | • Due to the frequent updates to regulations, specifically, California Proposition 65, EU REACH SVHCs, and RoHS, please contact Teknor Apex for the most up to date compliance statement, or refer to section 15 of the product SDS. |                                    |
| Appearance           | • Colors Available                                                                                                                                                                                                                   | • Opaque                           |
| Forms                | • Pellets                                                                                                                                                                                                                            |                                    |
| Processing Method    | • Wire & Cable Extrusion                                                                                                                                                                                                             |                                    |

## ASTM & ISO Properties <sup>1</sup>

| Physical                                        | Nominal Value | Unit | Test Method |
|-------------------------------------------------|---------------|------|-------------|
| Density / Specific Gravity                      | 1.66          |      | ASTM D792   |
| Mechanical                                      | Nominal Value | Unit | Test Method |
| Tensile Strength (Break)                        | 2340          | psi  | ASTM D638   |
| Tensile Elongation (Break)                      | 220           | %    | ASTM D638   |
| Hardness                                        | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore C, 10 sec, Hand Held) | 88            |      | ASTM D2240  |
| Thermal                                         | Nominal Value | Unit | Test Method |
| Continuous Use Temperature                      | 167           | °F   | ASTM D794   |
| Brittleness Temperature                         | 23.0          | °F   | ASTM D746   |
| Electrical                                      | Nominal Value | Unit | Test Method |
| Dielectric Constant                             |               |      | ASTM D150   |
| 1 kHz                                           | 4.70          |      |             |
| 1 MHz                                           | 3.71          |      |             |
| Dissipation Factor                              |               |      | ASTM D150   |
| 1 kHz                                           | 0.074         |      |             |
| 1 MHz                                           | 0.035         |      |             |
| Flammability                                    | Nominal Value | Unit | Test Method |
| Oxygen Index                                    | 56            | %    | ASTM D2863  |

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### Additional Information

Dynamic Thermal Stability @ 190°C, 80 RPM, #5 Bowl (Mins. To Decomposition) : 20..... ASTM D2538

Kayeness ACR @ 350°F, 1000 sec-1 (Pa-sec) : 340..... ASTM D3835

Cone Calorimeter @ 75 kW/m2 ..... ISO5660

- Peak Heat Release Rate (kW/m²) : 109.8
- Average Heat Release Rate (kW/m²) : 52.4
- Total Heat Released (MJ/m²) : 58.9
- Average Heat of Combustion (MJ/kg) :9.4
- Average Specific Extinction Area (m²/kg) : 134
- Peak Smoke (1/m) : 1.08

Data Sheet Applies to Color Listed Below:

Natural (1075419)

10/19-lc

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### Processing Information

| Extrusion        | Nominal Value | Unit |
|------------------|---------------|------|
| Melt Temperature | 385           | °F   |

### Notes

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