



# FIREGUARD® 910-LBF

Teknor Apex Company - Flexible Polyvinyl Chloride

## General Information

### General

|                   |                                                             |                                           |                                     |
|-------------------|-------------------------------------------------------------|-------------------------------------------|-------------------------------------|
| Material Status   | • Commercial: Active                                        |                                           |                                     |
| Availability      | • Africa & Middle East<br>• Asia Pacific                    | • Europe<br>• Latin America               | • North America                     |
| Features          | • Bromine Free                                              | • Flame Retardant                         | • Low Smoke Emission                |
| Uses              | • Insulation                                                | • Plenum Cable Jacketing                  |                                     |
| Wire Types        | • CL2P<br>• CL3P                                            | • CMP<br>• FPLP                           | • MPP<br>• OFNP                     |
| Agency Ratings    | • NEC Article 725<br>• NEC Article 760<br>• NEC Article 770 | • NEC Article 800<br>• UL 13<br>• UL 1424 | • UL 1651<br>• UL 444<br>• UL QMTM2 |
| RoHS Compliance   | • RoHS Compliant                                            |                                           |                                     |
| Appearance        | • Opaque                                                    |                                           |                                     |
| Forms             | • Pellets                                                   |                                           |                                     |
| Processing Method | • Extrusion                                                 |                                           |                                     |

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

| Physical                   | Nominal Value | Unit | Test Method |
|----------------------------|---------------|------|-------------|
| Density / Specific Gravity | 1.58          |      | ASTM D792   |
| Mechanical                 | Nominal Value | Unit | Test Method |
| Tensile Strength (Break)   | 2570          | psi  | ASTM D638   |
| Tensile Elongation (Break) | 190           | %    | ASTM D638   |
| Hardness                   | Nominal Value | Unit | Test Method |
| Durometer Hardness         |               |      | ASTM D2240  |
| Shore C                    | 92            |      |             |
| Shore C, 10 sec            | 87            |      |             |
| 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                      | 4.47          |      |             |
| 1 MHz                      | 3.49          |      |             |
| Dissipation Factor         |               |      | ASTM D150   |
| 1 kHz                      | 0.072         |      |             |
| 1 MHz                      | 0.033         |      |             |
| Flammability               | Nominal Value | Unit | Test Method |
| Oxygen Index               | 43            | %    | ASTM D2863  |

### Additional Information

Cone Calorimeter, Peak Heat Release Rate: 106 kW/m<sup>2</sup>  
Cone Calorimeter, Average Heat Release Rate: 59 kW/m<sup>2</sup>  
Cone Calorimeter, Total Heat Released: 70 MJ/m<sup>2</sup>  
Cone Calorimeter, Average Specific Extinction Area: 348 m<sup>2</sup>/kg  
Cone Calorimeter, Peak Smoke: 2 l/m  
Dynamic Heat Stability @ 205°, 100 RPM, 72 gr. #5 Bowl: 37 min to Decomposition  
Kayeness ACR @ 370°F: 271 Pa-s  
TA Six-Digit Code: 128-702

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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.