

FIREGUARD® 910A-34-NL

Teknor Apex Company - Flexible Polyvinyl Chloride

Saturday, September 14, 2024

General Information

General

| | | |
|----------------------|--|------------------------------------|
| Material Status | • Commercial: Active | |
| Availability | • Africa & Middle East • Asia Pacific | • Latin America • North America |
| Features | • Flame Retardant | • Low Smoke Emission |
| Uses | • Insulation, Plenum Cable | • Plenum Cable Jacketing |
| Agency Ratings | • UL 13 • UL 1424 | • UL 444 • UL QMTM2 |
| 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 Properties¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Density / Specific Gravity | 1.66 | g/cm ³ | ASTM D792 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 14.5 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 250 | % | ASTM D638 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore C, 10 sec, Hand Held) | 85 | | ASTM D2240 |
| Thermal | Nominal Value | Unit | Test Method |
| Continuous Use Temperature | 75.0 | °C | ASTM D794 |
| Brittleness Temperature | -5.00 | °C | ASTM D746 |
| Electrical | Nominal Value | Unit | Test Method |
| Dielectric Constant | | | ASTM D150 |
| 1 kHz | 4.67 | | |
| 1 MHz | 3.67 | | |
| Dissipation Factor | | | ASTM D150 |
| 1 kHz | 0.068 | | |
| 1 MHz | 0.032 | | |
| Flammability | Nominal Value | Unit | Test Method |
| Oxygen Index | 53 | % | ASTM D2863 |

Revision Date: 5/22/2024

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. There is no warranty of merchantability and there are no other warranties for the products described.

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Additional Information

Dynamic Thermal Stability @ 190°C, 80 RPM, #5 Bowl (Mins. To Decomposition) : 30..... ASTM D2538

Kayeness ACR @ 350°F, 1000 sec-1 (Pa-sec) : 359..... ASTM D3835

Cone Calorimeter @ 75 kW/m² ISO5660

- Peak Heat Release Rate (kW/m²) : 139.2
- Average Heat Release Rate (kW/m²) : 63.6
- Total Heat Released (MJ/m²) : 73
- Average Heat of Combustion (MJ/kg) : 11.6
- Average Specific Extinction Area (m²/kg) : 182
- Peak Smoke (l/m) : 1.50

Data Sheet Applies to Colors Listed Below:

Natural (1023418)

Blue 2161 (1127925)

Orange 584 (1135833)

12/23-lc

Processing Information

| Extrusion | Nominal Value | Unit |
|------------------|---------------|------|
| Melt Temperature | 196 | °C |

Notes

¹ Typical properties: these are not to be construed as specifications.

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