TEKNOR APEX

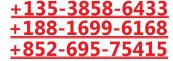
FIREGUARD® 910-NL1

Teknor Apex Company - Flexible Polyvinyl Chloride

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

<u>+135-3858-6433</u> +188-1699-6168 +852-695-75415

| ASTM & ISO Properties ¹ | | | | |
|------------------------------------|---------------|-------|-------------|--|
| Physical | Nominal Value | Unit | Test Method | |
| Density / Specific Gravity | 1.59 | | ASTM D792 | |
| Mechanical | Nominal Value | Unit | Test Method | |
| Tensile Strength (Break) | 2390 | psi | ASTM D638 | |
| Tensile Elongation (Break) | 250 | % | ASTM D638 | |
| Hardness | Nominal Value | Unit | Test Method | |
| Durometer Hardness | | | ASTM D2240 | |
| Shore C | 92 | | | |
| Shore C, 10 sec | 85 | | | |
| Thermal | Nominal Value | Unit | Test Method | |
| Continuous Use Temperature | 167 | °F | ASTM D794 | |
| Brittleness Temperature | 12.2 | °F | ASTM D746 | |
| Electrical | Nominal Value | Unit | Test Method | |
| Dielectric Strength | 840 | V/mil | ASTM D149 | |
| Dielectric Constant | | | ASTM D150 | |
| 1 kHz | 4.67 | | | |
| 1 MHz | 3.62 | | | |
| Dissipation Factor | | | ASTM D150 | |
| 1 kHz | 0.080 | | | |
| 1 MHz | 0.035 | | | |
| Flammability | Nominal Value | Unit | Test Method | |
| Oxygen Index | 46 | % | ASTM D2863 | |



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Additional Information

Av.Sp. Extinction Area: 273 m²/kg Avg. Heat of Combustion: 13.8 MJ/kg Avg. Heat Rel. Rate: 64 kw/m² Dynamic Heat Stability, 205°C, 100 rpm, 72 gms: 50 Kayeness ACR, 370°F, 1000 sec-1: 258 PA-sec

Peak Heat Rel. Rate: 119 kw/m² Peak Smoke: 2.3 Specific Gravity, ASTM D792: 1.57 to 1.61 sp gr 23/23°C TA Six Digit Description: 108-124 Total Heat Rel'd: 78 MJ/m²

| Processing Information |
|------------------------|
|------------------------|

Extrusion Melt Temperature Nominal Value Unit 385 °F

Notes

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

Revision Date: 5/30/2019

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