

Halguard® 58210

Teknor Apex Company - Polyolefin

Saturday, September 14, 2024

General Information

General

| | | | |
|----------------------|--|--|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East • Asia Pacific | • Latin America • North America | |
| Features | • Electrically Insulating • Filled • Flame Retardant | • Good Electrical Properties • Halogen Free • Low Smoke Emission | • Sunlight Resistant (720 hours) • UV Stabilized |
| Uses | • LSZH Insulation | • LSZH Jacketing | |
| Agency Ratings | • UL 94 | • UL AATJ2 | |
| 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 | • Black | • Colors Available | • Natural Color |
| Forms | • Pellets | | |
| Processing Method | • Wire & Cable Extrusion | | |

ASTM & ISO Properties¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Density / Specific Gravity | 1.60 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/20.0 kg) | 2.8 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 15.5 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 170 | % | ASTM D638 |
| Flexural Modulus | 143 | MPa | ASTM D790 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Operating Stand) | 43 | | ASTM D2240 |
| Thermal | Nominal Value | Unit | Test Method |
| Continuous Use Temperature | 105 | °C | ASTM D794 |
| Brittleness Temperature | -26.0 | °C | ASTM D746 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | | | ASTM D257 |
| 23°C | 4.0E+14 | ohms·cm | |
| 50°C | 1.9E+13 | ohms·cm | |
| Dielectric Constant (1 MHz) | 3.39 | | ASTM D150 |
| Dissipation Factor (1 MHz) | 0.016 | | ASTM D150 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (3.2 mm) | V-0 | | UL 94 |
| Oxygen Index | 43 | % | ASTM D2863 |

Revision Date: 5/22/2024

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Additional Information

Cone Calorimetry at 75 kW/m² ISO5660

- Peak Heat Release Rate, (kW/m²): 131
- Total Smoke Released, (m²/m²): 1,012
- Average Specific Extinction Area, (m²/kg): 184

Deformation at 121C, % (0.060" thick specimens): 2% UL1581

Sunlight Resistance UL1581

(Exposed for 720 hours in a Twin-Carbon Arc Weatherometer)

- Retention of Tensile Strength [%]: 94
- Retention of Elongation at Break [%]: 79

Data Sheet Applies to Colors Listed Below:

Natural (1084486)

Black 1 (1091526)

1/20-1c

Processing Information

| Extrusion | Nominal Value | Unit |
|------------------|---------------|------|
| Melt Temperature | 204 | °C |

Notes

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

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