

Technical data sheet



Product: 130C

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: ELEKTRO

Article group: KLEBEBAND

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SCOTCH® LINERLESS SPLICING TAPE 130C

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Scotch® Linerless Rubber Splicing Tape 130C

Data Sheet

July 2021

Product Description

3M Scotch® Linerless Rubber Splicing Tape 130C is a black, 30-mil (0.76 mm) thick, premium grade rubber splicing tape composed of a self-fusing Ethylene Propylene Rubber (EPR) backing with fusible adhesive interlayer.

- Commonly used as primary insulation for cable splice and termination applications up to 69kV (ASTM D4388, Type III)
- Compatible with common solid dielectric cable insulations
- Operating Temperature Rated to 194°F (90°C), Emergency Overload Rating to 266°F (130°C)
- Halogen free per International Electrotechnical Commission (IEC) 61249-2-21 standard
- Country of Origin: USA

Properties

| Physical Properties | Value Imperial (Metric) | Mechanical Properties | Value Imperial (Metric) |
|-------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Color - Visual | Black | Thickness ¹ | 30 +/- 3.0 mils (0.76 +/- 0.076 mm) |
| Backing | Ethylene Propylene Rubber (EPR) | Tensile Strength ¹ - Minimum | 250 psi (1.7 MPa) |
| Operating Temperature Rating ² Emergency Overload Rating ² | 194°F (90°C) 266°F (130°C) | Elongation ¹ - Minimum | 700% |
| Thermal Conductivity ³ - Nominal | 0.3 W/m-K | Electrical Properties | Value Imperial (Metric) |
| Fusion @ 300% Strain ¹ | Pass | Dielectric Strength ¹ - Minimum Standard After 96 hrs @ 23°C 96% RH | 700 V/mil (27.6 kV/mm) ≥90% Standard Value |
| Heat Resistance ¹ (7 days @130°C) | Pass | Volume Resistivity ¹ - Minimum After 96 hrs @ 23°C / 50% RH After 96 hrs @ 23°C / 96% RH | 10 ¹⁴ ohm.cm 10 ¹³ ohm.cm |
| Ozone Resistance ¹ | Pass | Permittivity in Air ¹ - Maximum After 24 hrs @ 23°C - (H ₂ O Immersion) After 24 hrs @ 70°C - (H ₂ O Immersion) | 4.0 4.0 |
| UV Resistance ¹ | Pass | Dissipation Factor in Air ¹ - Maximum After 24 hrs @ 23°C - (H ₂ O Immersion) After 24 hrs @ 70°C - (H ₂ O Immersion) | 5% 5% |

Notes:

1. ASTM D4325 Test Method - properties measured at room temperature 73°F (23°C) unless otherwise stated
2. ASTM D4388 Standard Specification, Type III
3. ASTM C518 Test Method - properties measured at room temperature 73°F (23°C) unless otherwise stated

Agency Approvals & Self Certifications

- Self-certified to ASTM D4388, Type III up to 69 kV (Test Report available)
- For Regulatory information including RoHS, REACH, please visit www.3M.com/regs

Installation Techniques

3M Scotch® Linerless Rubber Splicing Tape 130C shall be applied in successive half-lapped layers by highly stretching tape (for most applications this stretch will reduce the tape width to a minimum of ¾ original width) throughout the entire application until the required build-up is reached to produce a uniform winding.

Shelf Life & Storage

This product has a 5-year shelf life (from date of manufacture) when stored in a humidity-controlled storage (50°F/10°C to 80°F/27°C and <75% relative humidity).

Availability

3M Scotch® Linerless Rubber Splicing Tape 130C available from 3M authorized distributors

Also available from 3M.com/electrical or call 1.800.245.3573.

Scotch® Linerless Rubber Splicing Tape 130C

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