

Technical data sheet



Product: 23

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: ELEKTRO

Article group: KLEBEBAND

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SCOTCH RUBBER SPLICING TAPE 23

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Scotch® Rubber Splicing Tape 23

Data Sheet

July 2021

Product Description

3M Scotch® Rubber Splicing Tape 23 is a black, 30-mil (0.76 mm) thick, premium grade rubber splicing tape composed of a self-fusing Ethylene Propylene Rubber (EPR) backing supplied on a removable polyethylene liner.

- 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: Brazil

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	0.15 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® Rubber Splicing Tape 23 should 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® Rubber Splicing Tape 23 available from 3M authorized distributors

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

Scotch® Rubber Splicing Tape 23

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