Standard Number: **7365.31** 

Superseding: New

Effective Date: October 1, 2013

Page: 1 of 3

# Tape, Insulating, Electrical



# 1. Scope

This standard covers the requirements for self-amalgamating, electrical insulating tape. Self-amalgamating means self-bonding, self-fusing, or non - vulcanized.

This standard applies to the following Seattle City Light stock numbers:

Stock Number	Description
736503	3/4 in x 30 ft roll
736504	1 in x 30 ft roll
736505	1-1/2 in x 30 ft roll

# 2. Application

This product is a highly conformable, linerless, ethylene rubber (EPR), high-voltage insulating tape, formulated to provide excellent thermal dissipation of splice heat. The tape has excellent physical and electrical properties, which provide immediate moisture seals and void-free build-ups.

Insulating tape is intended for the following applications:

- Primary insulation for splicing all types of solid dielectric insulated cables through 69 kV
- Primary insulation for building stress cones on all types of solid dielectric insulated cables up to 35 kV
- Jacketing (secondary insulation) on high-voltage splices and terminations
- Moisture-sealing electrical connections
- Bus bar insulation

Standards Coordinator John Shipek Standards Supervisor John Shipek Unit Director Darnell Cola

gold hil

Damel Coh

Standard Number: 7365.31

Superseding: New Effective Date: October 1, 2013

Page: 2 of 3

Insulating tape is linerless to permit quicker application.

For best ultraviolet light (UV) protection, overwrap with a high-quality, vinyl electrical tape.

# 3. Properties (nominal)

Material	Self-amalgamating, ethylene propylene rubber (EPR)
Material thickness	30 mil
Color	black
Temperature rating, emergency	
Operating	90° C (194° F)
Emergency Overload	130° C (266° F)
Dielectric strength	750 V/mil
Thermal conductivity (at 23° C)	0.3 W/m° C
Breaking strength	7.5 lb/in (of width)
Tensile Strength	250 psi
Core Diameter	1-1/2 in
Shelf life (inside storage)	5 years from the date of manufacture

### 4. Testing

Test data that confirms the properties cited in the manufacturer's literature and this material standard shall be provided upon request.

### 5. Packaging

Each roll of tape shall be individually packaged in cellophane, plastic, or metal containers to prevent damage during shipping, storage, and casual handling prior to use.

Each roll of tape shall be legibly marked with the following information:

- Manufacturer's name
- Manufacturer's catalog number
- Product description

Number of rolls of tape per case shall be according to Section 7.

Each shipping container shall be marked with Seattle City Light's Purchase Order Number.

#### 6. Issuance

RL

Seattle City Light

MATERIAL STANDARD

Tape, Insulating, Electrical

Standard Number: 7365.31

Superseding: New

Effective Date: October 1, 2013

Page: 3 of 3

# 7. Approved Manufacturers

Stock Number 736503

Description 3/4 inch x 30 ft roll

Manufacturer 3M Product 130C

ID 80-6108-3340-4 UPC 00-54007-41717-0

Case Quality: 24 rolls

Stock Number 736504

Description 1 inch x 30 ft roll

Manufacturer 3M Product 130C

ID 80-6108-3375-0 UPC 00-54007-41753-8

Case Quality 24 rolls

Stock Number 736505

Description 1-1/2 inch x 30 ft roll

Manufacturer 3M Product 130C

ID 80-6108-3341-2 UPC 00-54007-41718-7

Case Quality 12 rolls

### 8. References

3M Electrical Products catalog, 80-6016-0382-4, 2011

3M Scotch Linerless Rubber Splicing Tape 130C, Data Sheet, 2005, 78-8125-9449-3-B

SCL 7365.3 (canceled); Tape, Insulating, Electrical

Shipek, John; Standards engineer and originator of 7365.31.

www.3m.com/electrical