



Document Title:

Arc and Fireproofing Tape 3 in. x 20 ft. White

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Material Specification

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Originating Department:

Distribution Standards & Materials

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Version History

Date	Revision Comments
August 9, 2022	Initial Release. Converted from PREPA to LUMA format
January 09, 2023	Cover page added and general format revision.
February 13, 2023	Modification Section 8.0, 9.0, and TOC.

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Equipment Specification
Document No.: 4350.252
Item No.: 038-01255
Asset Suite: 55006
Originating Department: Distribution Engineering



Arc and Fireproofing Tape 3 in. x 20 ft. White

1. Introduction

This is a general specification for arc and fireproofing tape 3 in. x 20 ft. white to be used in the distribution system in Puerto Rico. Further information will be provided by LUMA Energy at the time of order placement and will provide information on site specific conditions, quantity, and other requirements. This document includes the general mechanical characteristics of the material.

2. Special Requirements

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this material to LUMA on previous orders, will not have to furnish samples at bid opening. The material will be received at the LUMA's general warehouse (011) at Palo Seco, Puerto Rico. Shipping will include transportation and unloading at the indicated warehouse.

3. Quantity/Literature

Descriptive and technical literature must be supplied by vendor at time of bidding. This literature may include, but is not limited to details of material, drawings, documented testing, and instructions for use and installation. Failure to submit documents on time will cause bidder disqualification. For products described in this specification as requiring qualification, awards will be made only for such products that, prior to the time for opening of bids, had been tested and/or approved by LUMA. Evidence of LUMA Energy's approval of the equipment or material shall be supplied by vendor if requested by LUMA Energy.

4. Markings

- 4.1. Containers shall be marked outside with LUMA Energy's purchase order and item number.
- 4.2. Packaging labels and tags shall be waterproof.

5. Equal or Approved Equal to

3 M Co. "Scotch 77", catalog number 051128-60335

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6. Packaging

All material and equipment shall be packaged and marked in such a way as to facilitate handling and protection from damage and that the receiving warehouse can readily identify it and send it, in one complete unit, to a field location without opening crates or boxes to sort items and/or parts.

7. Number Per Package (Logistics)

Ten (10) individually packed rolls or as requested by LUMA Energy.

8. Acceptance Criteria

8.1. Test required: Electrical Arc Resistance Test (13000 K) and Oil Fire Withstand Test.

8.2. Latest applicable codes, standards, and other regulations:

- a. ANSI/ASTM Thickness, Elongation, and Tensile Strength D1000-76, Flame Resistance as per UL-94
- b. ASTM C-1518-64 Thermal Conductivity compatible with synthetic cable jackets.

9. Description

9.1. To provide maximum arc and fire protection for all cables in distribution lines.

9.2. Tape shall consist of a flexible comfortable unsupported intumescent flame-retarding, flexible self-extinguishing elastomer.

9.3. Shall have the following characteristics:

- a. Color: White
- b. Width: 3 in. (7.62 cm)
- c. Thickness: minimum 0.030 in. (0.76 mm)
- d. Length per roll: 20 ft. (6.10 m)
- e. Tensile strength: 1,500 PSI at 23 GRAD C
- f. Elongation at Break: 150 %
- g. Thermal conductivity: 0.078 BTU/HR/FT DEG F
- h. Concentrate sewage effect and water effect: no detectable effect.
- i. Flame Resistance: Self-extinguishing, 60 minutes oil fire withstand.

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- j. Water effect: No detectable effect

10. Inspection

The acceptance of any material or equipment shall in no way relieve the vendor from his responsibility to meet all the requirements of this specification, and it would not prevent subsequent rejection if such materials were found later to be defective.

11. Proposal Information

11.1. Submitted proposals must include:

- a. Technical information
- b. Table of Compliance completed by the bidder with reference. (See Appendix 1)

— End of Specification —

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Appendix

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Appendix 1: Table of Compliance

Line	Criteria	Description	Pass/Fail (P / F)	Comments
1	Specification	The Proponent complies with the corresponding specification document.		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ANSI/ASTM)		
3	Test required	Electrical Arc Resistance Test (13000 K) and Oil Fire Withstand Test		
4	Characteristics	<ul style="list-style-type: none"> • Color: White • Width: 3 in. (7.62 cm) • Thickness: minimum 0.030 in. (0.76 mm) • Length per roll: 20 ft. (6.10 cm) • Water effect: No detectable effect 		
5	Material properties	Elongation at Break: 150 %		
6	Tensile Strength	1500 PSI at 23 GRAD C		
7	Thermal conductivity	0.078 BTU/HR/FT DEG F		











4350.252 Arc And Fireproofing Tape (02-15-2023)

Final Audit Report

2023-02-15

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