



Document Title:

Electrical Insulation Tape - Putty

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Specification

Engineering Type

Material Specification

Document No.:

4350.276

Department

Distribution

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02

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N/A

Related/Referenced Documents

N/A

Version History

Version	Date	Revision Comments
1	Oct. 05, 2022	Item 038-83609 initial release.
2	Nov. 06, 2023	General format modifications. Adding Item 038-01297 and removing Item 038-83609.



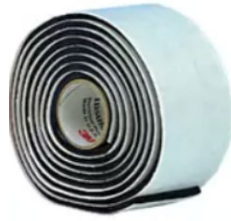
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Item Version History

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038-01297	55009	2	11/06/2023



1. Introduction

This is a general specification that covers the minimum requirements for the electrical insulating tape - Putty to be used in the distribution system in Puerto Rico. Further information will be provided by LUMA Energy at the time of order placement on site specific conditions, quantity, and other requirements. This document includes the general electrical and mechanical characteristics of the equipment/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 equipment/material will be received at the LUMA's general warehouse (O11) at Palo Seco, Puerto Rico. Shipping will include transportation and unloading at the indicated warehouse.

3. Literature

Descriptive and technical literature must be supplied by the 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. Evidence of PREPA's and/or LUMA Energy's approval of the equipment/material shall be supplied by the vendor if requested by LUMA Energy.

4. Markings

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

5. Compatible with

- 5.1. 3M - Scotchfil, Electrical Insulating Putty
- 5.2. This model is an example of the equipment/material described in this document and does not represent a preference. LUMA will evaluate equally any model not listed here during any acquisition event.

6. Packaging

All equipment/material 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)

Twelve rolls per package or as requested by LUMA Energy.

8. Acceptance Criteria

- 8.1. Test required: certified by external laboratories.
- 8.2. Shall comply with the latest applicable codes, standards, and other regulations (UL, RoHS).

9. Description

- 9.1. Electrical insulating tape for repairing cables and sealing low-voltage connections.
- 9.2. Shall be able to withstand at least 600 V for low-voltage systems.
- 9.3. Shall be a rubber-based tape, capable of being formed and molded with moderate finger tension.
- 9.4. Shall be suitable for temperatures from 32°F to 176°F (0 to 80°C).
- 9.5. Shall be non-corrosive and provide a waterproof taping surface.
- 9.6. Dimensions:
 - a. Width: 1.5" (3.81 cm)
 - b. Length per roll: 60" (1.5 m)
 - c. Thickness: 125 mils
- 9.7. Characteristics:
 - a. Elongation: 1,000 % minimum
 - b. Dielectric Strength: 575 V/mil
 - c. Insulation Resistance: $> 1 \times 10^6 \Omega$
- 9.8. Shall be UV resistant and be able to withstand acid and caustic soils, and saltwater environments.

10. Inspection

The acceptance of any equipment/material 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 equipment/material 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).



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Appendix



Appendix 1: Table of Compliance

Line	Criteria	Description	Pass/Fail (P / F)	Comments
1	Specification	The Proponent complies with the corresponding specification document (4350.276).		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document (UL, RoHS).		
3	Type	Rubber-Based Tape		
4	Operating Temp	32°F to 176°F		
5	Operating Volts	600 V		
6	Dimensions	Width: 1.5"		
		Length per roll: 60"		
		Thickness: 125 mils		
7	Elongation	1,000 %		
8	Dielectric Strength	575 V/mil		
9	Insulation Resistance	$> 1 \times 10^6 \Omega$		











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Final Audit Report

2023-11-06

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