



Rubber Mastic (RM)

Self-Bonding Mastic Tape

Technical Data Sheet

October 2017

Description and Features

Rubber mastic is a self-bonding mastic tape consisting of an ethylene propylene rubber (EPR) backing, bonded to a tacky temperature stable, electrical grade mastic. Use for insulating and moisture sealing splices and terminations on solid dielectric cable. Provides excellent electrical properties, superior adhesion, moisture and chemical resistance. For primary insulation up to 2kV.

- Excellent electrical properties
- Superior adhesion
- UV resistant.
- Moisture, corrosion, and chemical resistant
- Suitable for direct burial and overhead applications

Materials

Backing
EPR

Adhesive
Mastic

Color
Black

Standard Sizes

Width x Length

38 mm x 3 m (1,5" x 10')

51 mm x 3 m (2,0" x 10')

Other sizes available upon request

Technical Properties

Characteristic

Thickness (mm)
Elongation (%)
Operating temperature:
 Continuous (°C)
 Emergency overload (°C)
Water absorption (%)
Copper corrosion (visual)
Ozone resistance (visual)
UV Resistance
Dielectric strength (kV/mm)
Dielectric constant
Dissipation factor
Volume resistivity ($\Omega \cdot \text{cm}$)
Insulation Resistance ($M\Omega$)

Typical Value

1,65
890
90
130
0,10
None
Pass
Pass
20
3,2
0,025
 1×10^{15}
 $> 1 \times 10^6$

Test Method

ASTM D 4325
ASTM D 412
ASTM D 4325
ASTM D 4325
ASTM D 570
ASTM D 69
ASTM D 4325
ASTM D 4325
ASTM D 149
ASTM D 150
ASTM D 150
ASTM D 257
ASTM D 257

Recommended Uses

Use for insulating and moisture-sealing splices and terminations on solid dielectric cable. Can be wrapped, stretched or molded around irregular shapes for insulation build up, water sealing and surface protection. Ideal for Bus Bar insulation and corrosion protection.

Storage

In original packaging, placed in horizontal position under cover and temperature between 5°C and 35 °C.

Shelf Life

60 months from date of manufacture.

Information provided is for reference only. Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own tests to determine the product's suitability for the intended use

LIMITED WARRANTY: Plymouth warrants that its Product will substantially conform to that products written specifications for a period of one (1) year from the date of shipment, (Unless provided otherwise). Plymouth makes no warranty to the distributor, its customers, or the product's end user for the products merchantability and/or suitability for his/its intended use or purpose, and buyer shall assume all risks associated therewith. Provided that the product is proved to be defective within the terms described above, and provided buyer shall have first complied with all return policies of Plymouth, PLYMOUTH'S SOLE OBLIGATION AND BUYER'S EXCLUSIVE REMEDY UNDER THIS PRODUCT WARRANTY SHALL BE TO REPLACE SUCH QUANTITY OF THE PRODUCT AS IS PROVED TO BE DEFECTIVE WITHIN THE TIME PERIOD SPECIFIED ABOVE. EXCEPT AS EXPRESSLY SET FORTH HEREIN, PLYMOUTH MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. In no event shall Plymouth be liable for collateral, consequential, indirect or incidental damages arising out of, or connected in any way with the supply of products. (Rev. 1/2017-2019)