



125 Electrical Filler Tape

Technical Data Sheet

October 2017

| Description and Features | <p>125 Electrical Filler Tape is a 3,2 mm thickness (125 mil) self-amalgamating, low voltage insulating compound designed for quick, void-free insulation build-up. 125 Electrical Filler Tape can be easily moulded by hand to conform to irregular shapes and can be used as primary insulation for splices through 5 kV in conjunction with other insulating tapes. 125 Electrical Filler Tape provides an excellent moisture seal.</p> <ul style="list-style-type: none"> ▪ Builds up insulation quickly ▪ Easy to mold ▪ Self-amalgamates into a solid flexible mass ▪ Will not corrode copper or aluminum ▪ High moisture resistant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|-------------------------|------------------------|---|----------------|-----|-------------|------------------------|------|------------|----------------|------|------------|---------------------------------|------|-------------|------------------------|--|--|--------------------------|----|-------------|--------------------------|----|-------------|----------------------|-----|------------|---------------------------|------|-----------|-----------------------------|----|------------|-----------------------------|--------------------|------------|----------------------|--------------------|
| Materials | Backing Rubber | Adhesive None | Colour Black | Standard Size Width x Length 38 mm x 1,5 m (1.5 in. x 5 ft.) Other sizes available upon request | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Technical Properties | <table border="1"> <thead> <tr> <th data-bbox="438 1055 619 1077">Characteristic</th> <th data-bbox="1094 1055 1262 1077">Typical Value</th> <th data-bbox="1315 1055 1469 1077">Test Method</th> </tr> </thead> <tbody> <tr> <td data-bbox="438 1084 619 1106">Thickness (mm)</td> <td data-bbox="1134 1084 1166 1106">3,2</td> <td data-bbox="1315 1084 1469 1106">ASTM D 4325</td> </tr> <tr> <td data-bbox="438 1113 699 1135">Tensile strength (MPa)</td> <td data-bbox="1134 1113 1182 1135">0,35</td> <td data-bbox="1315 1113 1469 1135">ASTM D 412</td> </tr> <tr> <td data-bbox="438 1142 603 1164">Elongation (%)</td> <td data-bbox="1134 1142 1190 1164">1100</td> <td data-bbox="1315 1142 1469 1164">ASTM D 412</td> </tr> <tr> <td data-bbox="438 1171 810 1193">Heat resistance (Visual, @95°C)</td> <td data-bbox="1134 1171 1190 1193">Pass</td> <td data-bbox="1315 1171 1469 1193">ASTM D 4325</td> </tr> <tr> <td data-bbox="438 1200 715 1223">Operating Temperature:</td> <td></td> <td></td> </tr> <tr> <td data-bbox="456 1229 778 1252">-Maximum Continuous (°C)</td> <td data-bbox="1134 1229 1166 1252">80</td> <td data-bbox="1315 1229 1469 1252">ASTM D 4325</td> </tr> <tr> <td data-bbox="456 1258 778 1281">-Emergency Overload (°C)</td> <td data-bbox="1134 1258 1166 1281">95</td> <td data-bbox="1315 1258 1469 1281">ASTM D 4325</td> </tr> <tr> <td data-bbox="438 1288 683 1310">Water Absorption (%)</td> <td data-bbox="1134 1288 1166 1310">0,1</td> <td data-bbox="1315 1288 1469 1310">ASTM D 570</td> </tr> <tr> <td data-bbox="438 1317 735 1339">Copper Corrosion (Visual)</td> <td data-bbox="1134 1317 1190 1339">None</td> <td data-bbox="1315 1317 1469 1339">ASTM D 69</td> </tr> <tr> <td data-bbox="438 1346 751 1368">Dielectric Strength (kV/mm)</td> <td data-bbox="1134 1346 1166 1368">23</td> <td data-bbox="1315 1346 1469 1368">ASTM D 149</td> </tr> <tr> <td data-bbox="438 1375 767 1397">Volume Resistivity (Ohm.cm)</td> <td data-bbox="1134 1375 1206 1397">1x10¹³</td> <td data-bbox="1315 1375 1469 1397">ASTM D 257</td> </tr> </tbody> </table> | Characteristic | Typical Value | Test Method | Thickness (mm) | 3,2 | ASTM D 4325 | Tensile strength (MPa) | 0,35 | ASTM D 412 | Elongation (%) | 1100 | ASTM D 412 | Heat resistance (Visual, @95°C) | Pass | ASTM D 4325 | Operating Temperature: | | | -Maximum Continuous (°C) | 80 | ASTM D 4325 | -Emergency Overload (°C) | 95 | ASTM D 4325 | Water Absorption (%) | 0,1 | ASTM D 570 | Copper Corrosion (Visual) | None | ASTM D 69 | Dielectric Strength (kV/mm) | 23 | ASTM D 149 | Volume Resistivity (Ohm.cm) | 1x10 ¹³ | ASTM D 257 | Typical Value | Test Method |
| Characteristic | Typical Value | Test Method | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thickness (mm) | 3,2 | ASTM D 4325 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tensile strength (MPa) | 0,35 | ASTM D 412 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elongation (%) | 1100 | ASTM D 412 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heat resistance (Visual, @95°C) | Pass | ASTM D 4325 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operating Temperature: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -Maximum Continuous (°C) | 80 | ASTM D 4325 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -Emergency Overload (°C) | 95 | ASTM D 4325 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Water Absorption (%) | 0,1 | ASTM D 570 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Copper Corrosion (Visual) | None | ASTM D 69 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dielectric Strength (kV/mm) | 23 | ASTM D 149 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Volume Resistivity (Ohm.cm) | 1x10 ¹³ | ASTM D 257 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Recommended Uses | <p>125 Electrical Filler Tape can be used as a primary insulation for connections up to 5 kV in conjunction with high voltage insulating tape or vinyl plastic electrical tape. 125 Electrical Filler Tape is ideal for covering split-bolt connections, padding bus-bar edges and connections, and sealing switchgear and transformer terminals.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | <p>In original packaging, placed in horizontal position under cover and temperature between 5°C and 35 °C.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shelf Life | <p>24 months from date of manufacture.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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)