**Polyimide Film with FEP Adhesive #6254**



Standard No.: Q/12YJ4214-2023

**1. Application:**

This product is an adhesive tape made of polyimide film coated with F46 glue on one side or both sides, which is dried and cut. This adhesive tape is suitable for making H-class insulating material for electrical conductors, and it is melted and molded at 350-380°C for half a minute.

**2. Technological requirement:**

1.Appearance:

The tape is dry, smooth and free from any bubble or impurity, etc.

2.Dimension:

1).Length: The length of every roll is not less than1000 m and the number of splices is no more than 4.

2).Width and tolerance : 10mm±0.5mm, 15mm±0.5mm, 20mm± 0.5mm,

25mm±1mm.

Other specification can be offered according to the requirements of customers.

1. Performances

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| NO | Index Description | | Unit | Index Value（TY6254-FN） | | |
| 0.033mm | 0.038mm | 0.050mm |
| 1 | Thickness and tolerance | | mm | ±0.003 | ±0.003 | ±0.004 |
| 2 | Tensile | | Mpa | ≥140 | ≥100 | ≥100 |
| 3 | Elongation | | % | ≥55 | ≥55 | ≥55 |
| 4 | Peeling | （double S）tape to tape tape to copper  （single S）tape to base | N/10mm | ≥3.5  ≥3.5  ≥3.5  ≥3.5 | ≥3.5  ≥3.5  ≥3.5  ≥3.5 | ≥3.5  ≥3.5  ≥3.5  ≥3.5 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | tape to copper |  |  |  |  |
| 5 | Dielectric strength | | MV/m | ≥197 | ≥157 | ≥130 |
| 6 | \*Surface resistivity | | Ω | ≥1.0×1012 | ≥ 1.0×1012 | ≥1.0×1012 |
| 7 | \*Volume resistivity | | Ω.m | ≥1.0×1013 | ≥ 1.0×1013 | ≥1.0×1013 |

**II Package, mark, storage and transportation**

1.The adhesive material should be wound in a core of inside diameter 40mm and put it in a plastic bag and sealed and put it in a clean and dry carton.

2.There should a certificate in the box and with a mark of product name, spec, batch number, net weight, gross weight, date of production, company's name and words of ''dampproof' and 'anti shock'etc.

3.The storage period is half a year from the date of production. The material will be tested again if the storage period is over half a year. The material still can be used if test values are ok.

4.The material should be stored in dry, clean and ventilated warehouse.

5.When in transportation, the material should be protected from light, dampproof.