



TH-NHN polyimide film polyaramide fiber flexible composite material

PRODUCT DESCRIPTION

TH-NHN polyimide film polyaramide fiber flexible composite material offers good electrics, high mechanical strength and high temperature resistance. The mechanical and dielectric strength is still good under high temperature and moisture. Its thermal index is H.

TYPICAL APPLICATIONS

Ground Interwinding & Slot Insulation

TYPICAL PROPERTIES

| No | Item | Unit | Index value | | | | | | |
|----|------------------------------------|------------------|-------------|--------|--|--------|--------|--------|--------|
| 1 | Nominal thickness | mm | 0.15 | 0.17 | 0.20 | 0.23 | 0.25 | 0.30 | 0.33 |
| 2 | Nominal thickness tolerance | mm | ±0.02 | ±0.02 | ±0.03 | ±0.03 | ±0.04 | ±0.04 | ±0.05 |
| 3 | Weight | g/m ² | 155±25 | 175±25 | 195±30 | 230±35 | 260±40 | 300±45 | 330±50 |
| 4 | Tensile strength | | | | | | | | |
| | MD (Before bending) | N/10mm | ≥120 | ≥140 | ≥160 | ≥180 | ≥200 | ≥250 | ≥270 |
| | MD (After bending) | | ≥70 | ≥90 | ≥90 | ≥130 | ≥150 | ≥170 | ≥180 |
| | TD (Before bending) | | ≥80 | ≥90 | ≥110 | ≥110 | ≥120 | ≥150 | ≥170 |
| | TD (After bending) | | ≥50 | ≥70 | ≥80 | ≥80 | ≥100 | ≥110 | ≥130 |
| 5 | Elongation MD | % | ≥10 | ≥10 | ≥10 | ≥10 | ≥10 | ≥10 | ≥10 |
| | TD | | | | ≥8 (for all) | | | | |
| 6 | Breakdown Voltage | | | | | | | | |
| | (Before bending) | kV | ≥8 | ≥8 | ≥9 | ≥9 | ≥9 | ≥10 | ≥10 |
| | (After bending) | | ≥7 | ≥7 | ≥8 | ≥8 | ≥8 | ≥9 | ≥9 |
| 7 | Normal cohesiveness | - | | | Not laminating | | | | |
| 8 | Hot cohesiveness 200±2°C / 10min - | | | | Not laminating, no bubbles, no flow rubber | | | | |