

# Flexible Insulation Laminates

Arlon Innovations Flexible Insulation Laminates have been developed to meet the most demanding requirements of Military, Industrial, Commercial, and Consumer Specifications. Typical applications include ground, phase, wedge, and other insulations in motors, generators, dry-type transformers, bus ducts, wire, cable, thermal protective devices, and more.



**THERMAL  
&  
DIELECTRIC  
RESISTANCE**



**STANDARD  
&  
CUSTOM  
SOLUTIONS**

## APPLICATIONS

- Slot insulation in electric motors
- Turn-to-turn insulation in power generators
- Phase-to-phase insulation in low voltage circuit breakers
- Ground barrier insulation in dry type transformers
- Layer insulation in dry type transformers



**ARLON**  
INNOVATIONS

## PERFORMANCE & PHYSICAL DATA

| TEMPERATURE CLASS | PRODUCT            | DESCRIPTION   | APPLICATIONS   |
|-------------------|--------------------|---|--|
| CLASS A - 105C    | KM & KMK           | - 100% virgin fiber electrical Kraft paper (2 - 10 mil)   | - Slot, phase, and top insulation for motors & generators<br>- Ground, barrier, and layer insulation for dry type transformers   |
|                   |                    | - Electrical Grade PET film (1 - 4 mil)<br>- High temp laminating adhesive                              |  |
| CLASS B - 130C    | RM - RMR           | - 100% pure cotton Rag paper (3 - 15 mil)   | - End turn in motors and generators<br>- Formed and fabricated parts   |
|                   |                    | - Electrical Grade PET film (1 - 14 mil)<br>- High temp laminating adhesive                             |  |
| CLASS F - 155C    | DM70 & DMD70       | - Nonwoven polyester mat (2 - 5 mil)  | - Phase insulation for random wound motors<br>- Armor tape for low voltage form wound and generation coils<br>- Layer and barrier insulation in dry type transformers<br>- Slot insulation in motors & transformers  |
|                   |                    | - Electrical Grade PET film (1 - 14 mil)<br>- High temp laminating adhesive<br>- 70% filled with resin  |  |
| CLASS F - 155C    | DM100 & DMD100     | - Nonwoven polyester mat (2 - 5 mil)  | - Phase insulation for random wound motors<br>- Armor tape for low voltage form wound and generation coils<br>- Layer and barrier insulation in dry type transformers<br>- Slot insulation in motors & transformers<br>- Excellent slot cell insulation for random and form wound rotating apparatus, manual or auto insertion |
|                   |                    | - Electrical Grade PET film (1 - 14 mil)<br>- High temp laminating adhesive<br>- 100% filled with resin |  |
| CLASS H - 180C    | NM & NMN           | - Meta-Aramid paper (2 - 5 mil)   | - Slot & phase insulation for motors & generators<br>- End turn, layer, and ground insulation<br>- Insulation in dry type transformers   |
|                   | NME & NMNE         | - Electrical Grade PET film (1 - 5 mil)<br>- High temp laminating adhesive                              |  |
| CLASS R - 220C    | NK & NKN           | - Meta-Aramid paper (2 - 5 mil)   | - Insulation for aircraft generators<br>- Armature slot insulation for traction motors<br>- Barrier & ground insulation in dry type transformers<br>- Tape for traction and DC motor armature coils<br>- Slot and phase insulation for motors in high temperature environments   |
|                   |                    | - Polyimide film (1 - 5 mil)<br>- High temp laminating adhesive   |  |
| CLASS R - 220C    | Epoxy Coated Nomex | - Meta-Aramid paper (2 - 20 mil) coated with a thermosetting (b-stage) adhesive                         | - Magnet wire insulating tapes<br>- Turbine rotor coil insulation<br>- Form wound coil turn-to-turn bond strip<br>- Outer wrap for dry type transformers<br>- Hi-lo barrier for dry type transformers<br>- Voice coil insulation<br>- Motor reactor coils  |
|                   |                    |   |  |

## FEATURES

- All products are UL1446 certified at the stated temperature class
- High dielectric strength
- Easy fabrication and forming
- High tensile, tear, and burst strength