

Tack-Free Thermosetting Adhesive Tapes

Arlon Innovations Tack-Free Thermosetting Adhesive Tapes are cured with high heat and pressure, resulting in extensive cross-linking between polymer chains to produce an infusible and insoluble polymer network. The curing process creates a chemical bond that, unlike a thermoplastic, prevents the material from reflowing. These adhesives are tack-free at room temperature; no release liner is needed.



**BREAKTHROUGH
SOLUTIONS
THAT STICK**



**WHERE ADHESIVE
STRENGTH
&
HIGH HEAT
INTERSECT**



FEATURE APPLICATIONS

- Electrical & thermal insulation
- Busbar assembly
- Industrial appliance manufacturing
- Bonding to printed circuit boards
- Insulation for aircraft
- Wiring components & harness assembly
- Automotive
- Bonding rigid fittings to flexible tubing
- Electronic Manufacturing
- Electrical Manufacturing



ARLON
INNOVATIONS

BENEFITS OF THERMOSETTING ADHESIVE TAPES OVER PSA TAPES

- Performance in moist environments
- Extreme high adhesion strength
- Tack free at room temperature
- Resistance to shock, vibration & fatigue
- Thermal, chemical & corrosion resistance
- Dimensional stability & long-term durability

BENEFITS OF THERMOSETTING ADHESIVE TAPES OVER LIQUID ADHESIVES

- Controlled, uniform bond line
- Precise placement
- Pick & place instead of dispensing
- Improved stress distribution
- Ability to bond dissimilar & similar materials
- Minimal clean-up

WHY CHOOSE ARLON INNOVATIONS?

- Leading adhesive manufacturer since 1985
- Ability to custom design for application
- Formulations for many service conditions
- High-quality standards tested in R & D lab
- Large variety of functional substrates
- Partnership with UL certified lab

PHENOLIC COATED PRODUCTS



Phenolic thermosetting adhesive is coated onto foil, Nomex, Kapton and other high temperature performance substrates. When the adhesive is fully cured using heat and pressure it provides extremely high bond strength with a moisture barrier seal. This product is a key component in airbag inflators and can withstand temperatures up to 400C.

EPOXY COATED PRODUCTS



Epoxy thermosetting adhesive is coated onto Nomex and other papers and nonwovens for use as thermal insulation in electric motors, transformers and power generators. This product is UL rated Class R for 220C continuous use temperature.

EPOXY FLAME RETARDANT COATED PRODUCTS



Epoxy thermosetting adhesive with UL94 V-0 flame retardant rating is coated onto Nomex, Kapton, Mylar and other functional films for electronic, busbar and power distribution applications. These products insulate conducting wires commonly used for internal peripherals in computers, hard drives and PCB boards. These cables are prevalent in vehicles, televisions, computers and cell phones.

ACRYLIC FLAME RETARDANT (AFR) COATED PRODUCTS



AFR thermosetting adhesives with UL94 V0 to V1 flame retardant ratings are coated onto Nomex, Kapton, Mylar and other functional substrates for electronic, busbar and power distribution applications. These products are ideally bonded to busbars (a metallic strip or bar) typically housed inside switchgear, panel boards and busway enclosures for local high current electric power distribution.