



AIPL GROUP



ADHESIVE TAPES AND DIE-CUTS FOR ELECTRICAL/ELECTRONICS INDUSTRY

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COLOURED POLYESTER TAPE (A-108)

Description

Class - B insulation tape made by Polyester Film coated with acrylic adhesive for outer/Interlayer insulation of transformers and coils. Available in various colours.

Features & Application

- Offers superior electrical insulation
- Offers superior dimension stability
- Offers superior heat resistance
- Non Curl Film
- Available in long lengths and in different colours
- Electrical insulation of transformers and coils



PROPERTIES	UNIT	VALUE
Color	.....	Available Different Color
Base Material	.....	Polyester Film
Adhesive Type	.....	Acrylic
Tape Thickness	mm	0.055 ± 0.005
Liner Thickness	mm	N/A
Tensile Strength	kgf/inch	7 min
Elongation	%	50 min
Adhesion To steel	gm/25mm	550 min
Dielectric Strength	kv/mm	4.5 pass
Temperature Class	°C	Class-B

POLYESTER TAPE WITH OPAQUE ADHESIVE (A-144)

Description

Class-B insulation tape made by Polyester Film coated with Rubber adhesive for outer/Interlayer insulation of transformers and coils. Available in various colours.

Features & Application

- Offers superior electrical insulation
- Offers superior dimension stability
- Offers superior heat resistance
- Non Curl PET backing
- Available in long lengths and in different colours
- Opaque adhesive - Varnish Resistant
- ROHS Compliance
- Electrical insulation of transformers and coils



PROPERTIES	UNIT	VALUE
Color	.....	Available Different Color
Base Material	.....	Polyester Film
Adhesive Type	.....	Rubber Based
Tape Thickness	mm	0.055 ± 0.005
Liner Thickness	mm	N/A
Tensile Strength	kgf/inch	7 min
Elongation	%	50 min
Adhesion To steel	gm/25mm	550 min
Dielectric Strength	kv/mm	4.5 pass
Temperature Class	°C	Class-B

COLOURED POLYESTER TAPE (A-180 UL)

Description

UL approved Class -B insulation tape made by Polyester Film coated with acrylic adhesive for outer/Interlayer insulation of transformers and coils. Available in various colours.

Features & Application

- Offers superior electrical insulation
- Non Curl PET backing
- Offers superior dimension stability
- UL Approved (E175468)
- Offers superior heat resistance
- Available in long lengths and in different colours
- ROHS Compliance
- Electrical insulation of transformers and coils



PROPERTIES	UNIT	VALUE
Color	.....	Available Different Color Like Red, Yellow, Blue & Black.
Base Material	.....	Polyester Film
Adhesive Type	.....	Synthetic Acrylic Thermosetting
Tape Thickness	mm	0.055 ± 0.005
Liner Thickness	mm	N/A
Tensile Strength	kgf/inch	7 min
Elongation	%	50 min
Adhesion To steel	gm/25mm	550 min
Dielectric Strength	kv/mm	4.5 min
Temperature Class	°C	Class-B

POLYIMIDE TAPE (P-91) CLASS-H POLYIMIDE TAPE (P-291) CLASS-F

Description

Insulation tape Widely used in a variety of applications, such as heat-resistant electrical insulation, heat-resistant masking, component mounting reflow processes, and the manufacturing processes of various types of electronic components.

Features & Application

- Offers superior electrical insulation properties
- Offers superior dimension stability
- Offers superior heat resistance
- Chemically inert
- Used as Main insulation in conductors of motors and generators
- Used as a barrier insulation in applications like coils of brakes and welding transformers
- Used as busbar insulations in Li-battery packs
- Used for hot air Solder leveling of PCB
- Used for masking of gold finger in PCB
- Thermal power station bus bar insulation



PROPERTIES	UNIT	P-91 VALUE	P-291 VALUE
Color	.....	Dark Amber	Dark Amber
Base Material	.....	Polyimide film	Polyimide Film
Adhesive Type	.....	Silicon Based	Solvent Base
Tape Thickness	mm	0.063 ± 0.005	0.055 ± 0.005
Liner Thickness	mm	N/A	N/A
Tensile Strength	kgf/inch	4.5	4.5
Elongation	%	50 min	50 min
Adhesion To steel	gm/25mm	600 min	500 min
Dielectric Strength	kv/mm	5 min	5 min
Temperature Class	°C	Class-H	Class-F

TPT TRANSPARENT POLYESTER TAPE (A-225)

Description

Class-B insulation tape made by Polyester Film coated with Solvent adhesive for Interlayer insulation of transformers and coils.

Features & Application

- Offers superior electrical insulation
- Offers superior dimension stability
- Offers superior heat resistance
- Non Curl PET backing
- Transparent in nature
- ROHS Compliance
- Interlaminar Electrical insulation of transformers and coils



PROPERTIES	UNIT	VALUE
Color	.....	Transparent
Base Material	.....	Polyester Film
Adhesive Type	.....	Solvent Based
Tape Thickness	mm	0.055 ± 0.005
Liner Thickness	mm	N/A
Tensile Strength	kgf/inch	7 min
Elongation	%	50 min
Adhesion To steel	gm/25mm	550 min
Dielectric Strength	kv/mm	4.5 pass
Temperature Class	°C	Class-B

GREEN POLYESTER TAPE (A-536G)

Description

Thin backing and thick adhesive layer makes this tape ideal for heat-resistant plating masking. Almost no plating solution leaks in so it exhibits high reliability.

Features & Application

- Film is thin and offers excellent flexibility
- Has thick adhesive layer so almost no plating solution leaks in
- Residue Free adhesion
- Class H Insulation
- Heat Resistant masking during coating and plating Processes



PROPERTIES	UNIT	VALUE
Color	.....	Transparent Green
Base Material	.....	Polyester Film
Adhesive Type	.....	Silicon Based
Tape Thickness	mm	0.065 ± 0.005
Liner Thickness	mm	N/A
Tensile Strength	kgf/inch	14 min
Elongation	%	70 min
Adhesion To steel	gm/25mm	1000 min
Dielectric Strength	kv/mm	5 min
Temperature Class	°C	Class-H

FR GRADE POLYIMIDE TAPE (P-591)

Description

FR Grade, Class-H Insulation tape Widely used in a variety of applications, such as heat-resistant electrical insulation, heat-resistant masking, component mounting reflow processes, and the manufacturing processes of various types of electronic components.

Features & Application

- Offers superior electrical insulation properties dimension stability
- Fire retardant Grade- UL 94 -VTM-0
- Offers superior heat resistance & Chemically inert
- Used as Main insulation in conductors of motors and generators
- Used as a barrier insulation in applications like coils of brakes and welding Transformers
- Used as busbar insulations in Li-battery packs
- Used for hot air Solder leveling & masking of gold finger in PCB
- Thermal power station bus bar insulation



PROPERTIES	UNIT	VALUE
Color	.....	Dark Amber
Base Material	.....	Polyimide Film
Adhesive Type	.....	Silicon Based
Tape Thickness	mm	0.055 ± 0.005
Liner Thickness	mm	N/A
Tensile Strength	kgf/inch	4.5
Elongation	%	50 min
Adhesion To steel	gm/25mm	500 min
Dielectric Strength	kv/mm	5 min
Temperature Class	°C	Class-H
Flammability		FR

OIL RESISTANT MONOFILAMENT TAPE (P-788)

Description

P-788 is based on polyester film laminated to Glass filaments with a Modified Acrylic adhesive. It features a higher tack for oil filled transformers and is resistant against most transformer oils.

Features & Application

- Stable adhesive even after long exposure to transformer fluids
- High tensile strength
- Minimum contamination of oil power factor and interfacial tension
- Minimal air trapped between adhesive layers in tape
- Stiffness for superior handling, which promotes operator efficiency
- Resistant against most transformer oils including chlorinated oils
- Phase and coil-end insulation
- Core, layer and final insulation of coils and transformers
- Sealing connection leads for final insulation
- Oil filled transformers, sealing of inner coil of capacitors, final wrapping of cast resin capacitors



PROPERTIES	UNIT	VALUE
Color	.....	White
Base Material	.....	Glass Filament + Polyester Film
Adhesive Type	.....	Modified Acrylic
Tape Thickness	mm	0.110 ± 10%
Liner Thickness	mm	N/A
Tensile Strength	kgf/inch	50 min
Elongation	%	10
Adhesion To steel	gm/25mm	1000 min
Dielectric Strength	kv/mm	5 min
Temperature Class	°C	F- Class

ACETATE CLOTH TAPE (AC-500)



Description

AC-500 is a Class - B Insulation adhesive tape featuring superior physical Anti Rotting and moisture resistance properties made with Rayon cloth Backing.

Features & Application

- Adhesive requires no heat, moisture or other manner of preparation to affect application
- Designed for continuous operation not exceeding 105°C (221°F)
- ROHS compliance
- Moisture resistant and Anti rotting
- Hand tearable
- Commonly used for coil wrapping and wire harness bundling

PROPERTIES	UNIT	VALUE
Color	.....	White
Base Material	.....	Rayon Fabric
Adhesive Type	.....	Rubber Based
Tape Thickness	mm	0.200 ± 0.020
Liner Thickness	mm	N/A
Tensile Strength	kgf/inch	6 min
Elongation	%	15 min
Adhesion To steel	gm/25mm	750 min
Dielectric Strength	kv/mm	1.5
Temperature Class	°C	Class-B

GLASS CLOTH TAPE (A-221-F)



Description

A-221 - F is a adhesive tape featuring superior physical strength and electrical insulation properties made with Glass cloth Backing.

Features & Application

- Provides superior physical and mechanical strengths
- Special satin weave glass-cloth backing offers superior adherence to substrates
- Offers heat-resistance and good abrasion resistance
- Offers superior flame retardancy
- Heat-resistant termination and bundling of coils
- Heat-resistant outer insulation and protection of parts
- Insulation layer in transformer core
- Holding and protection of Heat tracers

PROPERTIES	UNIT	VALUE
Color	.....	White
Base Material	.....	Glass Cloth
Adhesive Type	.....	Solvent Based
Tape Thickness	mm	0.170 min
Liner Thickness	mm	N/A
Tensile Strength	kgf/inch	30 min
Elongation	%	5 min
Adhesion To steel	gm/25mm	500 min
Dielectric Strength	kv/mm	2.4 min
Temperature Class	°C	Class-F

GLASS CLOTH TAPE (A-521-H)



Description

A-521 - H is a Class - H Insulation adhesive tape featuring superior physical strength and electrical insulation properties made with Glass cloth Backing.

Features & Application

- Provides superior physical and mechanical strengths
- Offers superior flame retardancy
- Offers heat-resistance and good abrasion resistance
- Special satin weave glass-cloth backing offers superior adherence to substrates
- Heat-resistant outer insulation and protection of parts
- Insulation layer in transformer core
- Insulation of wire harness in elevated temperature zones
- Holding and protection of Heat tracers
- Heat-resistant termination and bundling of coils
- Holding and reinforcement of primary insulation for dry type transformers

PROPERTIES	UNIT	VALUE
Color	.....	White
Base Material	.....	Glass Cloth
Adhesive Type	.....	Silicone Adhesive
Tape Thickness	mm	0.170 ± 0.02
Liner Thickness	mm	N/A
Tensile Strength	kgf/inch	50 min
Elongation	%	10 min
Adhesion To steel	gm/25mm	500 min
Dielectric Strength	kv/mm	2 min
Temperature Class	°C	Class-H
Flammability		FR

COPPER FOIL TAPE (CU-25)



Description

Copper Foil coated with Conductive adhesive mainly used of Grounding and shielding purpose.

Features & Application

- High-conductivity and shielding effectiveness
- The adhesive system provides high peel strength
- Easy die-cutting and processing
- Shielding cables on notebook computers, copiers, or other electronic equipment
- Shielding over a component in which high-conformability is essential
- Shielding or grounding in weight-sensitive applications
- Shielding or grounding for electronic equipment where vibration may be present during operation

PROPERTIES	UNIT	VALUE
Color	.....	Reddish Brown
Base Material	.....	Copper Foil
Adhesive Type	.....	Conductive Adhesive
Tape Thickness	mm	0.070 ± 5%
Liner Thickness	mm	0.065-0.070
Tensile Strength	kgf/inch	10 ± 5%
Elongation	%	7 min
Adhesion To steel	gm/25mm	900 ± 10%
Dielectric Strength	kv/mm	.....
Temperature Class	°C	93 ± 2°C
Flammability		FR (FMVSS-302)

PINK CLOTH TAPE (FP-4800)



Description

FP-4800 is a High quality Polyester fabric coated with specially formulated rubber based adhesive.

Features & Application

- Soft and smooth unwind
- Good abrasion resistance and tensile strength
- Non Fraying Cloth and Anti Resistant
- Halogen free and lead free
- For coil winding, holding wires in motors
- In telephone and telecommunication equipment
- Holding down wire leads in corrosive environment
- For use in core insulation in relay transformers solenoid coils

PROPERTIES	UNIT	VALUE
Color	.....	Pink
Base Material	.....	Pink Polyester Fabric
Adhesive Type	.....	Rubber Based
Tape Thickness	mm	0.200 ± 10%
Liner Thickness	mm	N/A
Tensile Strength	kgf/inch	15 min
Elongation	%	10 min
Adhesion To steel	gm/25mm	700 min
Dielectric Strength	kv/mm	2
Temperature Class	°C	Class-F

ALUMINIUM GLASS CLOTH TAPE (AG-240)



Description

AG-240 is a aluminum + Glass cloth backing coated with high Performance solvent adhesive, protected by silicone coated release paper liner.

Features & Application

- Powerful adhesion and holding power offers trustworthy and robust aluminum facing
- Specially made to suit industrial thermal sealing applications
- The aggressive adhesive offers long life time even in humid conditions
- Thermal Jacketing of Li-ion battery packs
- Lamination in AC ductings
- Thermal jacketing of outdoor electronic equipments

PROPERTIES	UNIT	VALUE
Color	.....	Silver
Base Material	.....	Aluminium Foil + Glass Fabric
Adhesive Type	.....	Solvent Based
Tape Thickness	mm	0.140 ± 10%
Liner Thickness	mm	0.068-0.070
Tensile Strength	kgf/inch	30 min
Elongation	%	12 min
Adhesion To steel	gm/25mm	1000 min
Temperature Class	°C	-20°C to 80°C

THERMALLY CONDUCTIVE TAPE (TGC-250)



Description

Double sided Thermally Conductive Tape TGC-250 is designed to provide a preferential heat transfer path between heat generating components, such as IC Chip, LEDs and the heat sink or spreader.

Features & Application

- Improved surface wet-out for rough surface/LSE substrates
- Halogen free
- Ideal for thin bonding applications
- Good thermal transfer
- Wider and longer roll is available
- Excellent shock performance
- Heat transfer between PCB and heat sink
- LED mounting
- Power electronics component thermal management
- LED thermal management
- Automotive electronics Thermal management
- Li-Battery Thermal interface material

PROPERTIES	UNIT	VALUE
Color	.....	Glass Fabric
Base Material	.....	Thermally Conductive PSA
Adhesive Type	.....	0.25 ± 10%
Tape Thickness	mm	White
Liner Thickness	mm	Blue PE film
Tensile Strength	kgf/inch	12 ~ 18
Elongation	%	1.1
Adhesion To steel	gm/25mm	3.5 ~ 8.0
Dielectric Strength	kv/mm	120 (C) / 248 (F)
Temperature Class	°C	80 (C) / 176 (F)

POLYESTER FABRIC TAPES (F-2500) & (F-13085)



Description

Polyester Fabric Coated with Specially formulated Acrylic adhesive, Fire retardant and heat resistant.

Features & Application

- Soft and smooth unwind
- Good tensile strength
- Good abrasion resistance
- Halogen and lead free
- Shielding cables on notebook computers, copiers, or other electronic equipment
- Shielding over a component in which high-conformability is essential
- Shielding or grounding in weight-sensitive applications
- Shielding or grounding for electronic equipment where vibration may be present during operation

PROPERTIES	UNIT	F-2500 VALUE	F-13085 VALUE
Color	.....	Black	Black
Base Material	.....	Pet cloth	Pet Cloth
Adhesive Type	.....	Acrylic based	Acrylic Based
Tape Thickness	mm	0.140 ± 0.002	0.230 min
Liner Thickness	mm	N/A	N/A
Tensile Strength	kgf/inch	15 min	48 min
Elongation	%	10 min	20 min
Adhesion To steel	gm/25mm	700 min	700 min
Dielectric Strength	kv/mm	1	2
Temperature Class	°C	Class -F	Class -F
Flammability		FR(FMVSS-302)	FR(FMVSS-302)
Hand Tearable		Yes	No

THERMAL INTERFACE MATERIALS - TIMS



Description

Thermally Conductive Silicone Interface Pad TIM-15T20 is designed to provide a preferential heat transfer path between heat generating components, such as IC Chip or Electric Vehicle (EV) battery, and heat sink or spreader.

Features & Application

- Good Thermal Conductivity
- Excellent Electrical insulation and conformability to contours
- Flame retardant, high and low temperature resistance
- High compression and low oil yield
- Can be supplied in die-cut form

PRODUCT CODE	TIM-15T05	TIM-40T05	TIM-10T10	TIM-15T10	TIM-20T10	TIM-15T20
COLOR	Grey	Green	Grey	Grey	Purplish Blue	Grey
THICKNESS IN MM	0.5	0.5	1	1	1	2
WIDTH IN MM	200	460	460	200	460	200
LENGTH IN MM	400	460	460	400	460	400
THERMAL CONDUCTIVITY (w/mk)	1.5	4	1	1.5	2	1.5
HARDNESS (SHORE 00)	65	70	60	65	60	60

INSULATION PAPER TAPES (IP-1170G & IP-1260G)



Description

IP-1170G and IP-1260G are Paper based Insulation spacers used in Li-Battery pack assembly, works as a protection measure to avoid short circuiting. It is coated with High strength durable adhesive for secure placement during application and protected by siliconized paper liner.

Features & Application

- Excellent Physical and Di-electric properties
- Suitable of die-cutting and precision stamping processes
- Well suited for automated application
- Good insulation, wear resistance and aging resistance
- Available in Rolls, Diecuts and sheet form
- Widely used as in small motors as slot insulators and Turn to turn insulations
- Lithium ion cell terminal insulation

PROPERTIES	UNIT	IP-1170G VALUE	IP-1260G VALUE
Color	.....	Green	Green
Base Material	.....	Barley Paper	Barley Paper
Adhesive Type	.....	Hot Melt	Hot Melt
Tape Thickness	mm	0.180 Min	0.260 Min
Liner Thickness	mm	0.100±10%	0.100 ± 10%
Tensile Strength	kgf/inch	18 Min	22 Min
Elongation	%	4 Min	4 Min
Adhesion To steel	gm/25mm	2000 min	2000 min
Dielectric Strength	kv/mm	13 min	18 min
Temperature Class	°C	Class - A	Class - A

CONDUCTIVE FABRIC TAPE (F-2700)



Description

This conductive tape is constructed of nickel/copper metalized fabric with a conductive Pressure Sensitive Adhesive (PSA). The reliable tape design provides outstanding shielding performance while offering superior abrasion and corrosion resistance under high-dynamic flex conditions. The conductive fabric shielding tape features superior flexibility, durability, high-conductivity, effective shielding, and high peel strength.

Features & Application

- Easy die-cutting and processing
- The adhesive system provides high peel strength
- High-conductivity and shielding effectiveness
- Superb adhesion of nickel-copper plating
- Shielding or grounding in weight-sensitive applications
- Thinner design provides superior flexibility and durability
- Eliminates the potential of injury due to the sharp edges of metal foil tapes
- Shielding cables on notebook computers, copiers, or other electronic equipment
- Shielding over a component in which high-conformability is essential
- Shielding or grounding for electronic equipment where vibration may be present during operation

PROPERTIES	UNIT	VALUE
Color	.....	Silver Grey
Base Material	.....	Conductive Fabric
Adhesive Type	.....	Solvent Based
Tape Thickness	mm	0.090-0.100
Liner Thickness	mm	0.068-0.070
Tensile Strength	kgf/inch	15 min
Elongation	%	10 min
Adhesion To steel	gm/25mm	700 min
Temperature Class	°C	Class - F
Flammability		FR (FMVSS-302)



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