



INSULATION MATT BLACK TAPE 0.15MM X 18MM X 20M

Economical and Durable Electrical Tape

Data Sheet

Jan 2025

Description:

Matt Black 0.15mm Vinyl Electrical Tape is an economical and durable insulating tape with a thickness 0.15 mm. It operates reliably in ambient temperatures of up to 80 ° C while maintaining excellent flexibility for cold weather applications down to -10° C, ensuring easy installation.

This tape features a matte finish, textured PVC material, offering superior resistance to abrasion, moisture, alkalis, acids, corrosion, and varying weather conditions. Its elastic backing combined with high tack rubber based adhesive provides long lasting, moisture tight sealing at minimal thickness, ensuring reliable electrical insulation and mechanical protection.

- Complies with BS EN 60454-3-1 (European standard for electrical insulating tapes).
- Base Material: Matte finish, High quality Polyvinyl Chloride (PVC) backing
- Adhesive System: High performance pressure sensitive rubber based adhesive
- Flame Retardant: Self-Extinguishing, Low Smoke, ensures reliable protection and safety barrier
- Exhibits excellent compatibility with rubber/synthetic splicing compounds, epoxy, and polyurethane resin systems, ensuring reliable interfacial bonding across heterogeneous materials

Applications

- Basic Electrical Insulation: wires and cable insulation, Minor cable jacket, Color coding
 - General Purpose Bonding: Bundling cables and wires, Securing lightweight components, Marking or labeling in dry environments
 - Home & DIY Uses: Simple household wiring fixes, Craft projects requiring insulation, Temporary protective coverings
 - Light Industrial Maintenance: Non-critical equipment repairs, Surface protection during painting
 - Automotive Quick Fixes: Temporary wire harness repairs, Securing loose trim components
- Marking automotive circuits

Following Colour Options available:

- * Black
 - * Blue
 - * Yellow
 - * White
 - * Green
 - * Red
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● Matt Black Vinyl Electrical Tape

Specifications

Typical Properties

● Not for specifications. Values are typical, not to be considered minimum or maximum.
Properties measured at room temperature 23°C with 2°C tolerance with 65±5% relative humidity unless otherwise stated.

Agency Approvals

- CE/BS EN 60454-3-1,
- RoHS certification can be provided upon customer request(RoHS directive 2011/65/EU)

Physical Properties	Typical Value
Temperature Rating	176° F (80° C)
Color	BLACK/RED/YELLOW/BLUE/WHITE/GREEN
Thickness	(0.15 mm)
Adhesion to Steel (GB2792) 72° F (23° C)	4.5N/25MM
Adhesion to Backing (GB7753) 72° F (23° C)	4.5N/25MM
Backing Strength (GB7753) 72° F (23° C)	50N/25MM
Ultimate Elongation (GB7753) 72° F (23° C)	180%
Flammability (Maximum) Class A fire retardant	UL 510(V-0) Level
Voltage Rating	600V
Dielectric Strength (GB1410)	5 KV/Min

Shelf Life &Storage

- Store in original packaging
- Keep in cool, dry place 10° C / 50° F to 27° C / 80 ° F and <75% relative humidity).
- Avoid direct sunlight exposure
- Use within 2 years of manufacture date

Instruction:

- Economical and durable insulating tape: Rated for no more than 600V and up to 80° C (176° F)
Not for permanent high moisture environments Temperature,
Not suitable as sole insulation for critical connections.
Shall be insulated with a minimum of two half-lapped layers.

Installation Techniques

- Matt Black Vinyl Electrical Tape shall be applied in half-lapped layers with sufficient tension to produce a uniform wind (for most applications this tension will reduce the tape's width to approximately 5/8 of its original width). On pigtail splices, tape shall be wrapped beyond the end of the wires and then folded back, leaving a protective cushion to resist cut-through. Wrap tape up-hill, taping from a smaller diameter surface to a larger diameter surface. Apply the tape with no tension on the last wrap to prevent flagging.
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