



TECHNICAL DATASHEET

PRODUCT: STEELGRIP PVC ELECTRICAL INSULATION TAPE **(1.80 cm X 6.5m X 0.125 mm.)**

DESCRIPTION: **STEELGRIP** is self adhesive PVC electrical insulation tape conforming to BIS standard IS 7809 (Part 3, Sec.1). This tape is extensively used in household as well as all segments of industry viz. Electrical Appliance, Electronics, Telecom, Railways, Automobiles etc. STEELGRIP ensures complete and long lasting electrical insulation of wiring joints. It is water resistant and self-extinguishing in nature. STEELGRIP is available in five colours viz. Black, Blue, Green, Yellow & Red. STEELGRIP has a wide range of sizes to cater to different end user segments.

TYPICAL PROPERTIES:

Sr. No.	PROPERTY	TYPICAL VALUE IS 7809 (Part 3, Sec.1)	OUR TYPICAL VALUE
1	Colour of the Tape	As specified	As specified
2	Width of the Tape	As specified	As specified
3	Length of the Tape	As specified	As specified
4	Total Thickness of the Tape, in mm	0.10 – 0.15	0.125
5	Adhesion to Steel N/10 mm width	1.6 minimum	2.5
6	Adhesion to Backing N/10 mm width	1.3 minimum	2.5
7	Tensile Strength N/10mm per width per mm thickness	150 minimum	250
8	Electrical Strength at RT. kV/mm	40 minimum	65
9	Electrical Strength after humid conditioning kV/mm	35 minimum	60
10	Flammability	Shall be Self Extinguishing	Self Extinguishing
11	Electrolytic Corrosion	No Corrosion of Cu wire	No Corrosion of Cu wire
12	Insulation Resistance ohms	1.0 X 10 ¹¹ ohms minimum	1.6 X 10 ¹¹ ohms
13	Stability to Accelerated Aging at 65±1°C & 80 % Relative Humidity for 96 Hrs. N/10 mm width	No deterioration or change in properties of the backing 1.3 N minimum	No deterioration or change in properties of the backing 2.0 N minimum

APPLICATION AREA:

HOUSEHOLD / DOMESTIC: Used in electrical insulation of electrical wires of 3 phase, wire joints in decorative lightings, lamps during festivals. Insulating wire joints of electrical appliance like fan motors, Electric Iron, Water heater etc.

INDUSTRIAL: Used in all primary electrical insulation up to 440V. For joining cable terminals in submersible pumps. For strengthening and insulating Resistor, Capacitor leads in circuit boards, transformers, regulator leads etc. Used for colour coding of communication cables, for arresting ingress of water in telecom and optical cable joints. In auto segment STEELGRIP is used to protect automobile harness from engine compartment temperature and fluids, to protect areas of harness from abrasion.

STORAGE & SAFETY: Store away from excessive heat.

Shelf Life :- As per IS 7809 (Part 3,Sec1) the shelf-life is 12 months from the date of manufacture.

NOTE: We recommend that before using our product in full scale production, the customer should make his own tests to determine the suitability of the product under his operating conditions. As the circumstances under which our products are stored, handled and used are beyond our control, we can not assume any responsibility for their misuse by the customer.

STATUS: 07/08/2017