GECO



SHIELDER

SELF ADHESIVE PVC
ELECTRICAL INSULATION TAPE

- STRONG ADHESION
- SUPERIOR ELASTICITY
- UV & WEATHER RESISTANT
- FLAME RETARDANT



Description

GECO SHIELDER is a high-performance PVC electrical insulation tape designed to provide safe, durable and reliable insulation for wires and cables. Its high-tack adhesive ensures a strong, long-lasting grip, helping maintain secure insulation across different usage and environmental conditions.

Flexible and easy to use, SHIELDER provides dependable protection against moisture, weather and everyday wear. Its fire-retardant property adds an extra level of safety for electrical applications.

Available in multiple colours, SHIELDER also makes identification and colour coding of wires, cables and electrical joints quick and convenient.

Features

- **Strong Adhesion**
- **Superior Elasticity**
- **UV & Weather Resistant**
- **Flame Retardant**
- **Excellent Durability**
- **ROHS1 Compliant**

Areas of Application

GECO SHIELDER

- is suitable for electrical insulation of wire and cable joints, splices and connections in residential, commercial and industrial applications up to 440V
- can be used for bundling, colour coding, marking, reinforcing, sealing and protecting wires and cables

Standard Compliance

GECO SHIELDER complies with BIS standard IS 7809 (Part 3, Sec.1).

Application Procedure

1. Apply SHIELDER in overlapping layers, maintaining approximately 50% overlap between each wrap to ensure uniform and complete insulation. Stretch the tape moderately while wrapping so that it conforms firmly to the wire or cable surface without excessive tension.
2. Where possible, wrap from the smaller diameter towards the larger diameter to achieve a secure and even finish. For wire-end or pigtail joints, extend the tape slightly beyond the end of the wires and fold it back before continuing the wrap to provide additional protection.
3. Complete the final wrap with little or no tension and press the tape firmly into place to help prevent lifting or flagging at the edge.

Packaging

- Mono Carton: 30 Rolls
- Master Carton: 20 Mono Cartons (600 Rolls)

Colours

Black Red Yellow Green Blue White

Shelf Life & Storage

- Shelf life is 12 months from the date of manufacturing.
- The rolls should be stored flat.
- The product must be protected from dust, heat, moisture, direct sunlight and solvent fumes.
- Storage temperature should be 27 ± 2°C and relative humidity 55% ± 5.

Technical Properties

Test	UOM	Specs.	Typical Values	Test Method
Width	mm	17.0 ± 1	17.0	IS 7809, 1975
Total Thickness	mm	0.125 ± 0.025	—	IS 7809, 1977
Length	m	6.0	6.0	IS 7809, 1975
Adhesion to Steel	N/10 mm width	≥ 1.6	1.80 - 2.10	IS 7809, 1977
Adhesion to Backing	N/10 mm width	≥ 1.3	1.80 - 1.90	IS 7809, 1977
Tensile Strength	N/10 mm width /mm Thickness	150	170 - 185	IS 7809, 1977
Elongation	%	150	180 - 200	IS 7809, 1977
Electrical Strength	KV/mm Thickness	40	50 - 54	IS 7809, 1977
Electrical Strength after Humid Conditioning	KV/mm Thickness	35	48 - 50	IS 7809, 1977
Electrolytic Corrosion	—	Passes	Passes	IS 8516, 1977
Flammability	—	FR	FR	IS 7809, 1977
Insulation Resistance	MΩ	≥ 1×10^5	$10 - 20 \times 10^6$	IS 7809, 1985
Stability to Accelerated Ageing	N/10 mm width	≥ 1.3	1.80 - 2.10	IS 7809, 1986

Disclaimer: The product information and applications details given in this data sheet is meant to serve as a general guideline only. Users are advised to undertake a trial for product suitability prior to full-scale usage. There is no express or implied guaranty/warranty for the results. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.