

DIRECTA

ESSENTIALS FOR INDUSTRY

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DIRECTA (UK) LTD

TECHNICAL DATA SHEET:

PRODUCT: Our Reference No. 080

DESCRIPTION: Self-Amalgamating Tape

TECHNICAL DETAILS:

DESCRIPTION:

A strong black self-amalgamating Polyisobutylene elastic tape possessing excellent high voltage properties, ozone resistance, water resistance and the ability to protect against corrosion. There is no right or wrong side to Polyisobutylene tape, no sticky adhesive to pick up foreign matter or to tangle together during application in close clearances.

Self amalgamating, fuses into solid mass
Excellent ageing and weathering characteristics
High dielectric strength
High resistance to ozone, water and protects against corrosion

RECOMMENDED USES:

Primarily designed for the insulation of joints and terminations of high voltage power and distribution cable systems up to 38kv. Acts as an excellent watertight seal in many jointing applications especially in polyethylene sleeve joints on telephone cables both above and below ground. Particularly good for pipe protection against corrosion.

Nominal Thickness: 0.50 mm
Tensile Strength: 2.00 N/mm
Elongation at Break: 600%
Dielectric Strength: 35 Kv/mm
Ozone and Humidity Resistance: Excellent
Self-Amalgamating Properties: Excellent

Temperature Range: The product has a static working temperature range from -95 deg. C to +90 deg. C. In practice the performance may exceed the minimum test results indicated.

Properties	Value	Unit
Chemical Water Absorption (23 Degrees Centigrade Saturation)	0.5	%

Ozone	Passed	1 Month
Corrosion	None	Visual
Electrical Dielectric Constant	2.5	50Hz
Power Factor	0	50Hz
Volume Resistivity	1 x 10 ¹³	Ohm-m
Dielectric Strength	35	KV/m

Except where indicated otherwise, the above figures are average values and should not be regarded as maximum or minimum values for specification purposes. The company reserve right to improve products and change specifications which may alter performance. We advise the customer to test the material required to ensure the suitability of intended application.

HEALTH AND SAFETY

1. IDENTIFICATION:

- 1.1. Commercial Name - Self Amalgamating & Sealant Tapes
- 1.2. Description - Rubbery materials, consisting mainly synthetic Elastomers and other polyolefins. Most tapes carry a disposable interleaving. The products are intended for jointing and terminating cables. In addition, some of the tapes are used for corrosion protection and as sealants. Consult Directa Technical Data Sheets for individual tapes. Other uses should be referred to Directa (UK) Ltd for their recommendations in writing. **CAUTION:** For satisfactory and safe results, particularly with high voltage cables, correct procedures, as specified by the joint or cable manufacturer must be followed.
- 1.3. Supplier-Directa (UK) Ltd, Cold Norton, Essex CM3 6UA Telephone: 01621 828882

2. COMPOSITION/INFORMATION ON INGREDIENTS:

- 2.1. Tape-Rubbery materials, consisting mainly of Polyisobutyl- ene (PIB), Ethylene Propylene Rubber (EPR), Butyl Rubber and other polyolefins, compounded with carbon, mineral fillers and minor compounding ingredients.
- 2.2. Interleaving-Either PVC film, silicone coated release paper or crepe paper.

3. HAZARDS IDENTIFICATION:

- 3.1. Toxic Hazard-The product is not considered hazardous. Whilst some of the minor ingredients may themselves present a toxic hazard, once incorporated into the product they do not normally constitute a hazard.
- 3.2. Electrical Hazards-Semi Conducting, High Permittivity and Stress Control Tapes: Precautions must be taken to prevent the use, by mistake, of any of these instead of an insulating product.

4. FIRST AID:

- 4.1. Skin Contact-Wash hands thoroughly with soap and water. If irritation persists, seek medical advice.
- 4.2. Eye Contact-Treat as for any solid object in the eye.
- 4.3. Inhalation-Not normally applicable.
- 4.4. Ingestion-Not normally applicable.

5. FIRE-FIGHTING MEASURES:

- 5.1. Extinguishing Media-Use any common method.
- 5.2. Fire & Explosion Hazards-These products will burn. If large quantities are to be stored, it is

recommended that advice on fire-fighting equipment and procedures should be sought from the local Fire Authority. Combustion products include dark irritating smoke and possibly carbon monoxide. Avoid inhalation. In addition, some of these products use a PVC film as the interleaving, which when burning produces the irritating, toxic fumes of hydrogen chloride. For serious fires wear breathing apparatus with an independent air supply.

6. ACCIDENTAL RELEASE MEASURES: Sweep up material and place in suitable containers for disposal.

7. HANDLING & STORAGE:

7.1. Handling-The tape has not been formulated and tested for medical, chiropody or similar purposes and should not be used as medical plasters, bandages or hand protection tapes.

7.2. Storage-Store at ambient temperature, away from sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

8.1. Technical Installations-CAUTION:For satisfactory and safe results, particularly with high voltage cables, correct procedures, as specified by the joint or cable manufacturer, must be followed.

8.2. Components with exposure limits-None.

8.3. Personal Protection-Apply normal industrial hygiene.

9. PHYSICAL AND CHEMICAL PROPERTIES:

9.1. Appearance- Form:Soft rubbery tape, interleaved with a disposable PVC or paper interleaving. Colour:Black or grey. Odour:None.

9.2. Physical and Safety Data- pH value:5.5 - 8.0. Max.Temp:90oC-130oC depending upon product.

10. STABILITY AND REACTIVITY:

10.1. Stability-The tapes are not resistant to hydrocarbon type solvents, oils and greases. They should not be used where they might come into contact with transformer oils or the oils used in paper cable impregnants as these will cause softening of the tape.

10.2. Hazardous polymerization-Will not occur.

11. TOXICOLOGICAL INFORMATION: Not classified as hazardous.

12. INFORMATION ON ECOLOGICAL EFFECTS: None known.

13. INFORMATION ON WASTE DISPOSAL: Dispose of as combustible, non-toxic landfill in accordance with local, state and federal rules and regulations. Because of its combustibility, large quantities should be dispersed in smaller quantities over the landfill site. Incinerate only in incinerators with a built in fume scrubber.

14. TRANSPORT INFORMATION: No legal requirements.

15. REGULATORY INFORMATION:

15.1. Marks in accordance with EC Rule (Hazardous Components) Not classified as hazardous.

16. FURTHER INFORMATION:

16.1. General-The purpose of this sheet is to supply information about health and safety and it should not be treated as a specification for product properties.

DESCRIPTION: Plasticised PVC sheeting coated on one side with a pressure-sensitive adhesive, the latter consisting mainly of resins and rubber-like materials.

APPLICATION: Ensure that all surfaces to be bonded are dry, free from dust, grease and other contaminants. Surfaces to be bonded, and tape to be applied, should be at a temperature within the limits of the "Application Temperature" recommended in the relevant "Product Information Sheet". This is particularly important if the tape has been stored in a cold area. Apply the tape using the maximum amount of pressure possible, smoothing down to achieve 100% contact. For all electrical uses we recommend a 50% overlap on tape winding.

Joins in rolls of tape may occasionally be found. Every endeavour is made to reduce these to a minimum but users should not rely on the tape being one continuous length. When using tapes that have a siliconised paper as an interleave, remove this paper from the floor area as quickly as possible to minimise the risk of slipping. Self adhesive tape is not a hazard to health providing it is used correctly.

PVC Tapes are not recommended for gas fire back plate sealing.

SKIN CONTACT: A good standard of personal hygiene should be maintained. Wash hands with soap and water after use and especially before handling food. The tapes have not been formulated and tested for prolonged skin contact and should not be used as a medical plaster or as a hand protection tape. People with sensitive skin or those concerned about skin abrasion should take suitable precautions, e.g. proprietary barrier cream or gloves.

ACCIDENTAL INGESTION: Seek medical advice urgently.

ACCIDENTAL EYE CONTACT: Seek medical advice urgently.

STORAGE: Store in dry conditions, out of direct sunlight and keep out of reach of children.

FIRE RISK: PVC adhesive tapes, including self-extinguishing types will burn if ignited in a general fire giving off irritating, toxic fumes characteristic of burning PVC. For small fires use any common extinguishing method. If large quantities are to be stored seek advice from the local Fire Authority about fire-fighting equipment and procedures. This may include the need for air supply breathing apparatus.

DISPOSAL: As combustible, non-toxic landfill. Because of its combustibility large quantities should be dispersed in small amounts over the landfill site. Do not incinerate except in equipment provided with a suitable fume-scrubber.

This information is based on current knowledge and experience. Its purpose is to describe our tapes in terms of Health and Safety requirements and should not be treated as a specification.