

Foreword

This Bangladesh Standard was adopted by the Bangladesh Standards and Testing Institution onafter the draft finalized by the Rubber and Plastics Sectional Committee and approved by the Chemical Divisional Committee.

A dead body carrying bag, also known as a cadaver pouch or human remains pouch (HRP), is a non-porous bag designed to contain a human body, used for the storage and transportation of shrouded corpses. Body bags can also be used for the storage of corpses within morgues.

Due to its growing demand the sectional committee decided to formulate this standard. While formulating this standard the sectional committee gave due consideration to the views of the producers, consumers and technologists and felt that it should be related to the prevailing trade and manufacturing practices followed in this field in the country.

In the preparation of this standard, Considerable has been derived from the following publication:

<https://www.polcreative.com>: Brochure of Polcreative group, manufacturer of body bags

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value (observed or calculated) expressing the result of a test or analysis, shall be rounded off in accordance with BDS 103.

Bangladesh Standard Specification for Dead Body Carrying Bag (Plastics)

1. Scope

1.1 This standard specifies the requirements pertaining to material, methods of test, construction, performance and sampling of dead body carrying bag made by plastic materials.

1.2 This standard does not cover the dead body carrying bag made by fabrics, leather and non-plastics materials.

2. Normative References

2.1 The following Bangladesh Standards are necessary adjuncts to this Standard. For undated references the latest edition of the publication referred to applies.

BDS No.	Title
BDS 103	Methods of rounding off numerical values.
BDS 1765	Methods of random sampling.
BDS 1975	Method for Determining the Water Repellency of Fabrics by Cone Test.
BDS ISO 811	Textiles Fabric – Determination of Resistance to Water Penetration - Hydrostatic Pressure Test.
BDS ISO 3801	Textiles – Woven Fabrics – Determination of mass per unit length and mass per unit area.
BDS ISO 4920	Textiles fabrics – Determination of resistance to surface wetting (spray test).
BDS ISO 1833 Part 17	Textiles – Quantitative Chemical analysis – Part 17: Mixtures of chloro fibres (homo polymers of vinyl chloride) and certain other fibres (method using sulphuric acid).
BDS ISO 13934 Part 1	Textiles – Tensile properties of fabrics – Part 1: Determination of maximum force and elongation at maximum force using the strip method.
BDS ISO 22198	Textiles – Fabrics Determination of width and length.

3. Definition

For the purpose of this standard, the definitions given in BDS ISO 472 shall apply, in addition to the following.

3.1 Dead Body Carrying Bag: Dead body carrying bag, also known as a cadaver pouch or human remains pouch (HRP) is a large zipper bag. It is used to store and carry human corpses before burial.

4. Requirements

4.1 Description - The dead body Carrying bag shall be homogenous and free from defects such as foam, unevenness crease, fish eye, mixture of foreign matter, pinhole etc. The shape of the bags shall be uniform and the finish of cut portions shall be of good workmanship. For printed bags, it shall be uniform and free from printing defects. Stitching is not allowed. It shall be air tight, leak-proof and water resistant.

4.2 Material - The dead body carrying bag shall be made of polyvinyl chloride (PVC), Poly vinyl acetate (PEVA), Polypropylene (PP), Polyethylene terephthalate (PET), Low density polyethylene (LDP), High Density Poly Ethylene (HDPE) etc.

4.2.1 Biodegradable dead body carrying bag ingredients (if manufacturer declared) shall be conformed with BDS EN 13432.

4.3 Zipper: The dead body carrying bag Zipper shall be made of PVC, PEVA, PP, PET, LDP, HDPE etc. It should be moulded by heating. Zipper shall be straight or U-shape. Ends of zipper area must be sealed. Above the zipper, there should be two pieces of protection cover for better effect of anti-leakage.

4.4 Edged: Edges of the bag shall be sealed by heating welding machine. No stitching is allowed.

4.5 Colour: Colour of the dead body bag may be black, off white or any other colour as per purchaser's choice. Colour shall be uniform.

4.6 The Dead body carrying bag shall be manufactured by a process adhering to Good Manufacturing Practices (GMP).

4.7 Dead body carrying bag with plastic zipper shall conform to the requirements specified in Table 1.

Table 1 Performance requirements of dead body carrying bag
(Clause 4.7)

SI No. (1)	Characteristics (2)	Requirement (3)	Test methods (4)
i)	Materials: Plastic (PEVA, PVC, PE, PP etc.), percent by mass Tolerance, percent by mass	100 - 5	BDS ISO 1833 Part-17
ii)	Water proofing test:		
	a) Amount of penetration	No leakage	BDS 1975 or BDS ISO 4920
	b) Spray test (as required)	ISO 5	
c) Wetting of outer surface	No wetting (sweating inside the folds permissible)	visual	
iii)	Water Resistance (Hydrostatic Head), mbar, <i>Min</i>	1000	BDS ISO 811
iv)	Tensile Strength:		BDS ISO 13934 Part-1
	a) Warp, N, <i>Min</i> b) Weft, N, <i>Min</i>	295 275	
v)	Zipper Material: Plastic (PEVA, PVC, PE, PP etc.), percent by mass Tolerance, percent by mass	100 - 5	BDS ISO 1833 Part-17
	Bag Handle Material (Optional): Plastic tube, percent by mass Tolerance, percent by mass	100 - 5	
vii)	Bag Handle/lace load bearing capacity, kg, <i>Min</i> Tolerance, percent by mass	1000 ±5	BDS ISO 13934 Part-1

4.8 Dimensions and Tolerances

4.8.1 Recommended width, length and nominal thickness (in cm), of dead body bag used principally for storage and transport dead body are given in Table 2 with tolerances. The length of U-shaped bag is measured at an optional end part.

Table 2 Dimensions and Tolerances

Sl. No.	Length (cm)	Width (cm)	Nominal thickness (cm)	Tolerances (cm)	Test methods
Dead Body Carrying Bag (Big Size):					
1	100	90	0.25	±5	BDS ISO 22198 For Nominal thickness: ISO 4591 ASTM D6988
2	120	80			
3	150	80			
4	150	90			
5	150	100			
6	215	110			
7	220	80			
8	220	90			
9	220	100			
10	220	100			
11	220	110			
12	230	79			
13	230	90			
14	230	110			
15	240	110			
16	240	120			
17	250	120			
18	250	120			
Dead Body Carrying Bag (Small Size) used for animals, infants as well as for body parts:					
19	30	40	0.25	±5	BDS ISO 22198 For Nominal thickness: ISO 4591 ASTM D6988
20	70	35			
21	75	40			
22	85	60			
23	90	65			
24	120	87			
25	125	95			
26	140	87			
27	145	95			
NOTE – Tolerances is applicable for length and width, not for Nominal thickness.					

4.7.2 These dimensions may be changed, depending upon the purchaser's requirement and shall be specified by purchaser's.

5. Packaging

The dead body carrying bag with plastic zipper rolls shall be packaged in containers to prevent moisture ingress, contamination, damage during transportation, handling and storage. It may be further packed in secondary packages. Details of the packing shall be as agreed to between the buyer and the seller. Packaging of the product shall be such as to maintain the integrity of the product throughout its shelf life.

6. Marking

The package shall be legibly and indelibly marked with the following information:

- a) Name of the product;
- b) Name and address of the manufacturer. In the case of imported products, name and address of the distributor/ importer including the country of origin;
- c) Registered trade mark/ brand name, if any;
- d) Dimensions of the product;
- e) Material: Plastics (PEVA, PVC, PE, PP etc.);
- f) Weight capacity in kg;
- g) Batch/ lot number;
- h) Instructions for use;
- i) Date of manufacture;
- j) Use best before;
- k) Maximum retail price; and
- l) Any other requirement as prescribed by the statutory authorities.

6.1 The containers may also be marked with the BSTI Certification Mark.

NOTE - The use of the BSTI Certification Mark is governed by the provisions of the Bangladesh Standards and Testing Institution Act 2018 and the Rules and Regulations made there under. Details of conditions be under which a license for the use of the BSTI Certification Mark may granted to manufacturers or processors, may be obtained from the Bangladesh Standards and Testing Institution.

7. Sampling and Criteria for Conformity

7.1 Lot

All the dead body carrying bag of the same material and produced under similar conditions of manufacture shall constitute a lot.

7.1.1 Each lot shall be tested separately for ascertaining the conformity of the lot.

7.1.2 The number of dead body carrying bag to be selected from the lot shall depend on the size of the lot and shall be in accordance with column 2, 3 and 5 of Table 3.

7.1.3 These dead body carrying bag shall be selected at random from the lot. For this purpose, reference may be made to BDS 1765.

7.2 Number of Tests and Criteria for Conformity

7.2.1 All the dead body carrying bag selected as per column 3 of Table 3 shall be examined for requirements given in 4.3.

7.2.1.1 Any dead body carrying bag failing in one or more of the above requirements shall be termed as defective. The lot shall be considered as conforming to the above requirements, if the total number of defectives found in the sample is less than or equal to the acceptance number given in column 4 of Table 3. Otherwise, the lot shall be rejected.

7.2.2 Out of the sample already found satisfactory according to 7.2.1.1, a sub-sample as per column 5 of Table 3 shall be taken. This sub-sample shall be further tested for the remaining requirements.

7.2.3 The lot shall be considered as conforming to the requirements of the specification if the total number of defective Dead body carrying bag found in the sample (as per 7.2.2) is less than, or equal to the acceptance number as given in column 6 of Table 3.

Table 3: Number of dead body carrying bag to be selected

(Clause 7.1.2, 7.2.1, 7.2.1.1, 7.2.2 and 7.2.3)

Sl. No.	Lot Size N	Non-Destructive Testing		Destructive Testing	
		No. of Dead body carrying bag to be Selected n	Acceptance Number a	No. of Dead body carrying bag to be Selected n ₁	Acceptance Number a ₁
(1)	(2)	(3)	(4)	(5)	(6)
i)	Up to 280	13 ¹⁾	1	8	0
ii)	281 – 500	20	2	8	0
iii)	501 – 1200	32	3	13	0
iv)	1201 – 3200	50	5	13	0
v)	3201 – 10000	80	7	20	1
¹⁾ Or lot size when less than 13					

Annex A
Images of Dead Body Carrying Bag



Black



Off White

Fig. 1 Dead Body Carrying Bag



Inside Handle (Plastic tube)



Outside handle (Lace)

Fig. 2 Handle of Dead Body Carrying Bag



Fig. 3 Straight Zipper



Fig. 4 U-Shape Zipper



Fig. 5 Small Size Dead Body Carrying Bag