

CORPORATE PURCHASING SPECIFICATION

AA 237 01			
	Rev. No. 03		
	PAGE 1 OF 3		

WOVEN POLYESTER TAPE

1.0 GENERAL:

This specification governs with the quality requirements of white, unvarnished polyester tape with woven selvedges, which shall be uniform throughout and shall not be heat-sealed. The yarn used shall be polyester filament and the tape shall be woven firmly and uniformly in plain weave.

2.0 APPLICATION:

The material is used in the insulation of electrical machines.

3.0 COMPLIANCE WITH NATIONAL STANDARDS:

There is no national standard covering this material. However, assistance has been derived from the following national standard:

IS:5351-1975: Woven polyester tapes for electrical purposes.

4.0 DIMENSIONS AND TOLERANCES:

4.1 Sizes:

The dimensions shall be as specified in BHEL order.

4.2 Tolerances:

4.2.1 Thickness:

Thickness (mm)	Tolerance (mm)
0.08 0.13	± 0.01 ± 0.01

4.2.2 Width:

Width (mm)	Tolerance (mm)
Upto 25	± 1.0
Above 25	± 1.5

Revisions : Letter from HW		APPROVED : INTERPLANT MATERIAL RATIONALISATION COMMITTEE-MRC (E)			
Rev. No. 03	Amd.No.	Reaffirmed	Prepared	Issued	Dt. of 1st Issue
Dt.:15.03.2004	Dt:	Year :	HYDERABAD	Corp. R&D	AUGUST, 1979

Δ	Δ	237	01
$\overline{}$	$\overline{}$	4.) /	17.1

Rev. No. 03

CORPORATE PURCHASING SPECIFICATION



PAGE 2 OF 3

4.3 Length:

The length per reel: 50 m

5.0 TEST METHODS:

Unless otherwise specified, the tests shall be conducted as per IS:5351.

6.0 JOINTS:

There shall not be more than two joints in any roll. Adhesive tape may be used to fasten the end s of the tape. Pins and other metal devices shall not be used for fastening the ends.

7.0 PHYSICAL PROPERTIES:

7.1 Thread/Count:

Nominal thickness, mm	Warp, cm	Weft, cm	
0.08	30 – 32	18 - 20	
0.13	40 – 42	16 – 18	

7.2 Central thread:

A coloured thread shall be woven in the tape through out the length for indicating the centre of the width.

8.0 TYPE TESTS:

8.1 CHEMICAL PROPERTIES:

pH value of aqueous extract : 7 - 10

Conductivity of the aqueous extract: 70 micro mhos/cm, max.

9.0 MECHANICAL PROPERTIES:

Breaking load:

Nominal thickness, mm, min.	Breaking load (kg/cm width), min.		
0.08	8		
0.13	12		

10.0 THERMAL PROPERTIES:

Thermal shrinkage at $160^{\circ} \pm 2^{\circ}$ C for 15 minutes: 5 - 12 percent.



CORPORATE PURCHASINGSPECIFICATION

AA 237 01	
Rev. No. 03	

PAGE 3 OF 3

11.0 ACCEPTANCE CRITERIA:

Material shall be accepted on the basis of the following:

- a) Compliance certificate furnished by the supplier
- b) Test certificate furnished by the supplier and / or testing carried out at BHEL end.

12.0 TEST CERTIFICATES:

Unless otherwise stated, three copies of test certificates shall be supplied along with each consignment giving following information:

In addition, the supplier shall ensure to send one copy of test certificate along with the dispatch documents to facilitate quick clearance of the materials.

AA 237 01, Rev 03: Woven polyester tape

BHEL order No.

Manufacturers/suppliers Name:

Trade name/mark, if any:

Batch/Lot No.;

Test values obtained / certificate for compliance for physical, chemical, mechanical and thermal properties and dimensional tolerances as per the specification.

13.0 PACKING AND MARKING:

The tape shall be tightly wound in rolls of 50 m on hard tubes of equal width of the tape. The core shall not be loosened when the roll is dropped on floor from a height of one metre. A set of 10 rolls shall be wrapped in polythene film and the sets packed in cases. The cases shall be marked with the following information:.

AA 237 01: Woven polyester tape BHEL order No.

Manufacturers/suppliers Name:

Batch/Lot No.

Thickness and width

Quantity supplied

Date of manufacture

14.0 REFRRED STANDARDS (Latest Publications Including Amendments):

1) IS: 5351