

MASTER COPY
WHEN IN RED



ELECTROPORCELAINS DIVISION
BENGALURU – 560012, INDIA
Purchase Specification
Group : Photovoltaic Module

SPEC. NO: PS-906-01-0024

REV. 00 JOB NO.-STD.

PAGE 01 OF 01

PTFE LAMINATOR BELT – TOP

1.0 ITEM : PTFE (Poly tetra fluoro ethylene) Laminator Belt

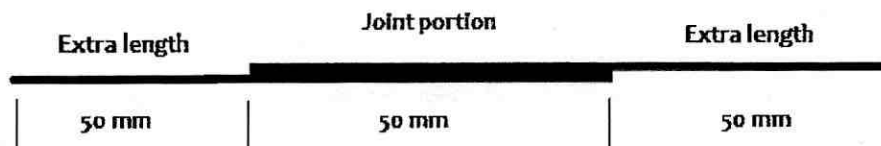
2.0 PURPOSE: PTFE belt is used in laminator machine for lamination of Solar PV Modules Panels, It is used as top cover sheet in a laminator.

3.0 Technical Specification:

3.1	Material	PTFE sheet coated with fiber glass
3.2	Color	Brown
3.3	Dimensions	Refer drawing no. - 3-988-08-009-10
3.4	Mechanical Properties	
3.4.1	Breaking Strength (kg / cm)	≥ 35
3.4.2	Tears Strength (kgf)	≥ 16
3.4.3	Density (gms / m ²)	≥ 227
3.4.4	Adhesive Strength (Kg / cm)	≥ 25
3.5	Electrical Properties	
3.5.1	Di-electric Strength (kV)	≥ 7.0
3.5.2	Surface property	Anti-static
3.6	Thermal Properties	
3.6.1	Operating Temperature (°C)	0°C to +260°C
3.6.2	Touch sense	Non-sticky & Non-irritant

NOTE:

1. Sample belt of size 100×100 mm from the same manufacturing roll in continuity to be supplied for evaluation of Breaking Strength, Tears Strength, Density, Electrical and Thermal Properties.
2. Sample belt specimen as shown below of jointed portion, with extra length of size 50 mm on both side to be supplied for evaluation of adhesive strength.



Revision (00):	Issued By	Prepared By	Checked By	Approved By	Date
1 st Issue	SPV Eng.	RKP	NAR	CNP	11.09.18

COPY RIGHT AND CONFIDENTIAL
The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest of the company.

DRAWING NO.
7

Copyright and Confidential

CONFIDENTIAL AND COPYRIGHT

REF. PROJ.NO.

ATE

INVENTORY NO.

FORM No. AS-02

7

M

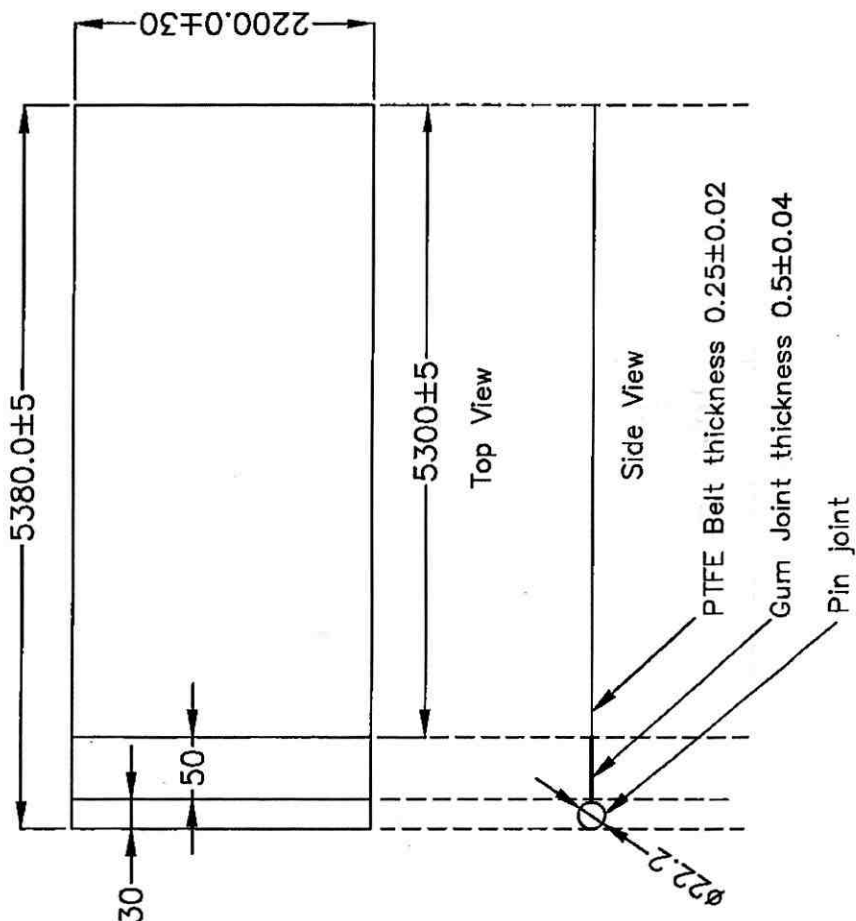
4

45

6

7

7/5/97



MASTER COPY
WHEN IN RED

Note:

1. Pre fabricated Pin joint along with PTFE laminator belt to be supplied
2. Ref. Specification no. - PS-906-01-0024

 BHARAT HEAVY ELECTRICALS LIMITED, ELECTROPROCELAN DIVISION, BANGALORE										NAME		SIGN.		DATE		No. OF VAR	
DEPT. SPV CODE 901 FOR UNSPECIFIED- TOLERANCES REFER ED 0230498 NTS  SCALE WEIGHT(KG) MATERIAL CODE EL-9060100247										DPRN		RKP		11.09.18			
										CHKD		NAR		11.09.18			
										APPRD		CNP		11.09.18			
REV.		DATE		REV.		DATE		REV.		DATE		REV.					
ALTERED		CHECKED		ALTERED		CHECKED		ALTERED		CHECKED		ALTERED					
CHECKED		APPROVED		CHECKED		APPROVED		CHECKED		APPROVED		CHECKED					
APPROVED		APPROVED		APPROVED		APPROVED		APPROVED		APPROVED		APPROVED					
REV.		DATE		REV.		DATE		REV.		DATE		REV.					
ALTERED		CHECKED		ALTERED		CHECKED		ALTERED		CHECKED		ALTERED					
CHECKED		APPROVED		CHECKED		APPROVED		CHECKED		APPROVED		CHECKED					
APPROVED		APPROVED		APPROVED		APPROVED		APPROVED		APPROVED		APPROVED					
TITLE PTFE LAMINATOR BELT - TOP										DRAWING NO.				REV.			
										3-988-08-009-10				00			
										SHEET NO. 01				NO. OF SHEETS 01			
										7				8			
										5				6			
										4				3			
										2				1			

MASTER COPY
WHEN IN RED



BHEL-EPD

ELECTROPORCELAINS DIVISION
BENGALURU – 560012, INDIA
Purchase Specification
Group : Photovoltaic Module

SPEC. NO: PS-906-01-0025

REV. 00

JOB NO.-STD.

PAGE 01 OF 01

PTFE LAMINATOR BELT – BOTTOM

1.0 ITEM : PTFE (Poly tetra fluoro ethylene) Laminator Belt

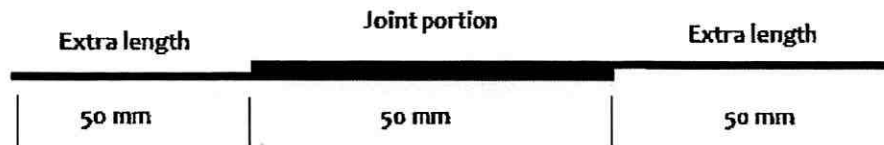
2.0 PURPOSE: PTFE belt is used in laminator machine for lamination of Solar PV Modules Panels, It is used as bottom cover sheet in a laminator.

3.0 Technical Specification:

3.1	Material	PTFE sheet coated with fiber glass
3.2	Color	White / Cream
3.3	Dimensions	Refer drawing no. - 3-988-08-010-10
3.4	Mechanical Properties	
3.4.1	Breaking Strength (kg / cm)	≥ 70
3.4.2	Tears Strength (kgf)	≥ 30
3.4.3	Density (gms / m ²)	≥ 318
3.4.4	Adhesive Strength (Kg / cm)	≥ 25
3.5	Electrical Properties	
3.5.1	Di-electric Strength (kV)	≥ 7.5
3.5.2	Surface property	Anti-static
3.6	Thermal Properties	
3.6.1	Operating Temperature (°C)	0°C to +260°C
3.6.2	Touch sense	Non-sticky & Non-irritant

NOTE:

1. Sample belt of size 100×100 mm from the same manufacturing roll in continuity to be supplied for evaluation of Breaking Strength, Tears Strength, Density, Electrical and Thermal Properties.
2. Sample belt specimen as shown below of jointed portion, with extra length of size 50 mm on both side to be supplied for evaluation of adhesive strength.



Revision (00):	Issued By	Prepared By	Checked By	Approved By	Date
1 st Issue	SPV Eng.	RKP	NAR	CNP	11.09.18

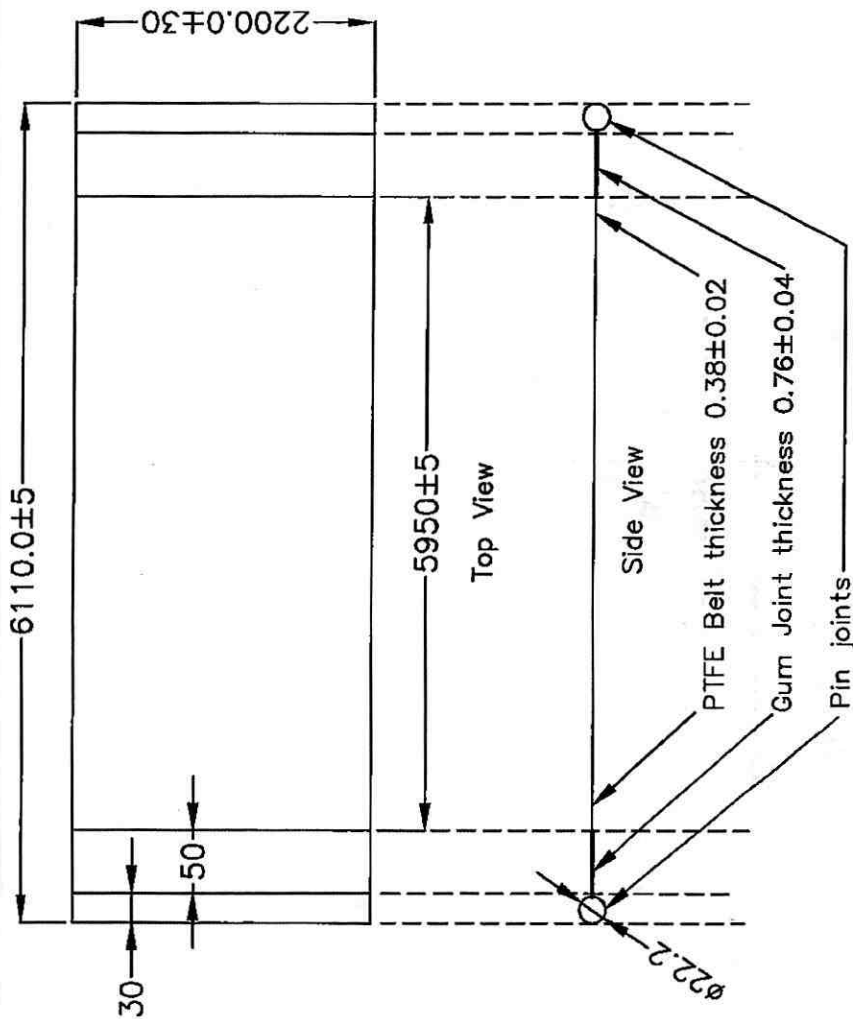
COPY RIGHT AND CONFIDENTIAL
The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest of the company.

FIRST ANGLE PROJECTION

01-010-80-886-2
DRAWING NO. 886-2

ALL DIMENSIONS ARE IN mm

7 6 5 4 3 2 1



MASTER COPY
WHEN IN RED

Note:

1. Pre fabricated Pin joint along with PTFE laminator belt to be supplied
2. Ref. Specification no. - PS-906-01-0025

BHARAT HEAVY ELECTRICALS LIMITED. ELECTROPROCELAN'S DIVISION, BANGALORE		NAME	SIGN.	DATE	No. OF VAR
DRN	RKP			11.09.18	
CHK	NAR			11.09.18	
APPO	CNP			11.09.18	
DEPT: SPV	FOR UNSPECIFIED- TOLERANCES REFER ED 0230499	SCALE	WEIGHT(Kg)	JOB NO.-	ITEM NO.
CODE 901	NTS			STD.	
TITLE		DRAWING NO.		REV.	
PTFE LAMINATOR BELT - BOTTOM		3-988-08-010-10		00	
FIRST ISSUE		SHEET NO. 01		NO. OF SHEETS 01	

COPYRIGHT AND CONFIDENTIAL
The information on this document is the property of Bharat Heavy Electricals Limited.
It must not be used directly or indirectly in anyway detrimental to the interest of the Company

SIGN & DATE

REF. DRG.NO.

INVENTORY NO.

FORM No. AS-02

2

3

4

5

6

7

A3 SIZE