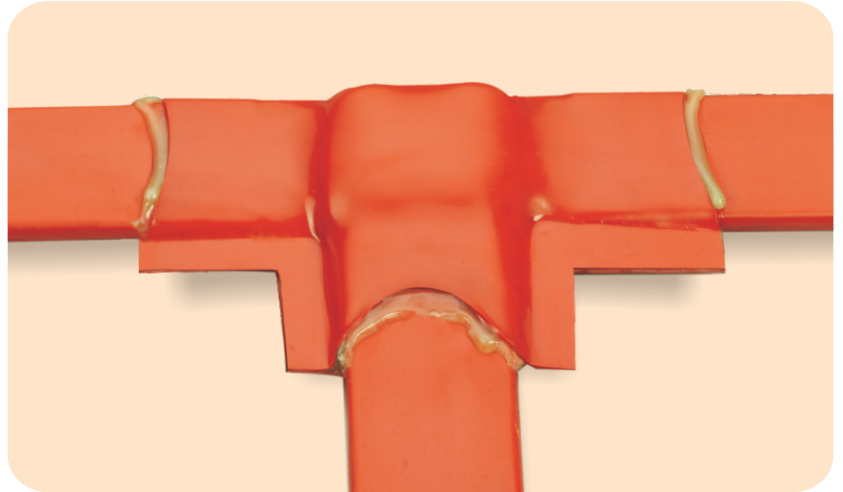




Bus Sheet GMHS & GHHS is an adhesive coated heat shrinkable sheet, which provides insulation enhancement & protection against accidentally induced discharge. It is suitable to insulate almost any sizes or shapes of busbar joint like busbar tees, elbows and other connections where tubing and tape can not be used.



Application of Heat Shrink High Voltage Insulation Sheets

HEAT SHRINK HIGH VOLTAGE INSULATION SHEET

TECHNICAL SPECIFICATION

Physical

TEST DESCRIPTION	RECORDED VALUE	TEST METHOD
1. Tensile Strength	12 N/mm ² (MPa) (min.)	ASTM D638
2. Ultimate Elongation	300% (min.)	ASTM D638
3. Water Absorption	0.5% (max.)	ASTM D570
4. Hardness	45 ± 10 Shore D	ASTM D2240

Thermal

1. Accelerated ageing	120°C for 500 hrs	ASTM D2671
a. Tensile Strength	10 N/mm ² (Mpa) (min.)	ASTM D638
b. Ultimate Elongation	250 % (min.)	ASTM D638
2. Low Temp. Flexibility (-40°C for 4 hrs)	No Cracking	ASTM D2671
3. Heat Shock (250°C for 30 min.)	No cracking or flowing	ESI 09-11
4. Shrink Temperature	125°C	IEC 216
5. Continuous Temp. Limit	-40° to +105°C	IEC 216

Electrical

1. Dielectric Strength	22 KV/mm. (min.)	ASTM D149
2. Volume Resistivity	1 x 10 ¹⁴ Ohm.cm min.	ASTM D257
3. Dielectric constant	5 (Max.)	ASTM D150
4. Resistant to track & erosion	No Tracking, erosion or flame failure up to 3.25 KV for 20 min.	ASTM D2303

After applying heat, this sheet shrinks to tightly conform to complicated shapes. Gela mastic tape can also be added to ensure that protruding shapes are insulated.

The sheet is manufactured from high quality non tracking crosslinked polyolefin material & meets ANSI C37.20.2 standards for MV application upto 36KV. GMHS sheet shall provide flashover protection up to 17.5KV. & GHHS sheet shall provide protection up to 36KV.

-: FEATURES & BENEFITS :-

- ❖ Easy to install on site using a gas torch or hot air gun.
- ❖ Prevents Busbar from chemical corrosion effected by strong acid, alkali, salt, etc.
- ❖ Halogen free, flame retardant.
- ❖ High dielectric strength.
- ❖ Excellent UV & weather resistant properties, & hence suitable for indoor or outdoor use.
- ❖ Reduces BusBar Clearance.
- ❖ No Special Mould / Tool required.

Technical Qualification Report : QR 1019

CLEARANCE WITH INSULATION

VOLTAGE	MEDIUM WALL SHEET (GMHS)		HEAVY WALL SHEET (GHHS)		UN-INSULATED BUS BARS
	PH. TO PH	PH TO GR.	PH TO PH.	PH TO GR	
12 KV	65	75	35	45	120
17.5 KV	85	105	55	65	160
24 KV	115	150	70	100	220
36 KV	200	285	140	190	320



Void Filling & Sealing Mastic



Bus Sheet Installation Tools

HEAT SHRINK HIGH VOLTAGE INSULATION SHEET

PRODUCT SELECTION

For 'T' Connection

BUSBAR WIDTH (mm)	CUT SIZE NEEDED (mm)	NO. OF INSTALLATIONS PER SHEET
25	275 x 225	8
50	325 x 250	6
75	400 x 275	4
100	450 x 325	3
150	550 x 425	2

For 'L' Connection

BUSBAR WIDTH (mm)	CUT SIZE NEEDED (mm)	NO. OF INSTALLATIONS PER SHEET
25	275 x 175	10
50	325 x 225	7
75	400 x 250	5
100	450 x 275	4
150	550 x 325	2

Note: The above table should be used as a guideline only. Please try with one or two joints before adopting final cut size. The busbars are assumed to be insulated to 25mm. from the joint. Cut size should extend minimum of 100mm. on each leg of the joint before shrinking and should overlap existing insulation by 65mm. after shrinking.

ORDERING INFORMATION

GALA CODE	LENGTH Ls (mm)	WIDTH Ws (mm)	THICKNESS (Tf)		
			SHEET (mm)	ADHESIVE (mm)	TOTAL THICKNESS (mm)
GMHS	1200	430	3	1.5	4.5
GHHS	1200	430	4	1.5	5.5
VOID FILLING MASTIC	300	60	-	-	PIECE
SEALANT MASTIC	300	20	-	-	PIECE
TOOL - 1	(BASIC CLAMP AND BRACKET KIT)				KIT
TOOL - 2	(EXTENDED CLAMP AND BRACKET KIT)				KIT

s - AS SUPPLIED, f - AFTER FREE RECOVERY

Note : If required, one piece of Red sealing mastic is applied on each leg of the joint and one or two pieces of Black sealing mastic is used to cover uneven shapes.