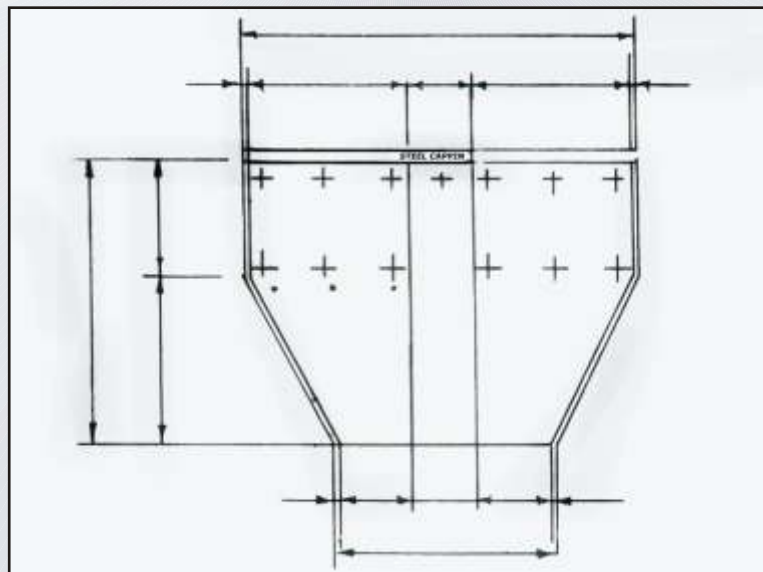


# plascon

# UHMW

AN ENGINEERING PLASTIC

*Excellent Material For Lining*



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# PLASCON® WEAR RESISTANT LINER PLATES FOR CHUTES, SILOS, BINS, HOPPER, SCRAPPER, AND CONVEYOR ETC.

Plascon Sheets can work satisfactorily as Linear material for Hoppers, Silos and Chutes, Anti-sticking character of Plascon prevents any caking or freezing of Silos content on the surface of Silos, Hoppers, separators and similar plants. The major advantage of plascon Lining is easy release and slidability and, therefore it is obvious that clogging of materials being experienced by you frequently at present may not occur; on the contrary, by deploying Plascon Lining, maintenance of continuous flow will be natural.

## PHYSICAL FEATURES :

1. Density 0.94 gm/cm<sup>3</sup>.
2. High Molecular weight above 4 Million.
3. High impact Resistance and flexural strength.
4. Lighter than water-unique Engineering Plastic.
5. Good resistance at high as well low (-269°C) temperature.
6. Non-sticking to foreign material.
7. Excellent chemical resistance and almost no water absorption.
8. Free from taste and odour hygienic.
9. Fine electrical properties.
10. Easily machinable.
11. No atmospheric effect.
12. Excellent abrasion resistance (for example, in a test that is widely accepted in the materials, handling industry, samples of various materials are rotated in sand water, slurry and volume losses measured. The Carbon steel was assigned on abrasion loss rating of 100, based on the volume of material lost during the test. Other material in the same test were rated as given in table below. It is to be noted that lower the rating, better the wear properties.

## TABLE WEAR LOSS

UMPWPE	PLASCON	17
Abrasion Resistant Steel		55
Stainless Steel		84
Carbon Steel		100
Phosphor Bronze		193
Nylon 6-6		31
Polyurethane (D-70)		37
HDPE		86
Low Density Polyethylene		530

The above properties enable Plascon to be used as linear conveyor, idler, wheel etc.



PLASCON SOLVES CLAY LANDING PROBLEM IN POTTERY INDUSTRY



## CHEMICAL RESISTANCE OF PLASCON :

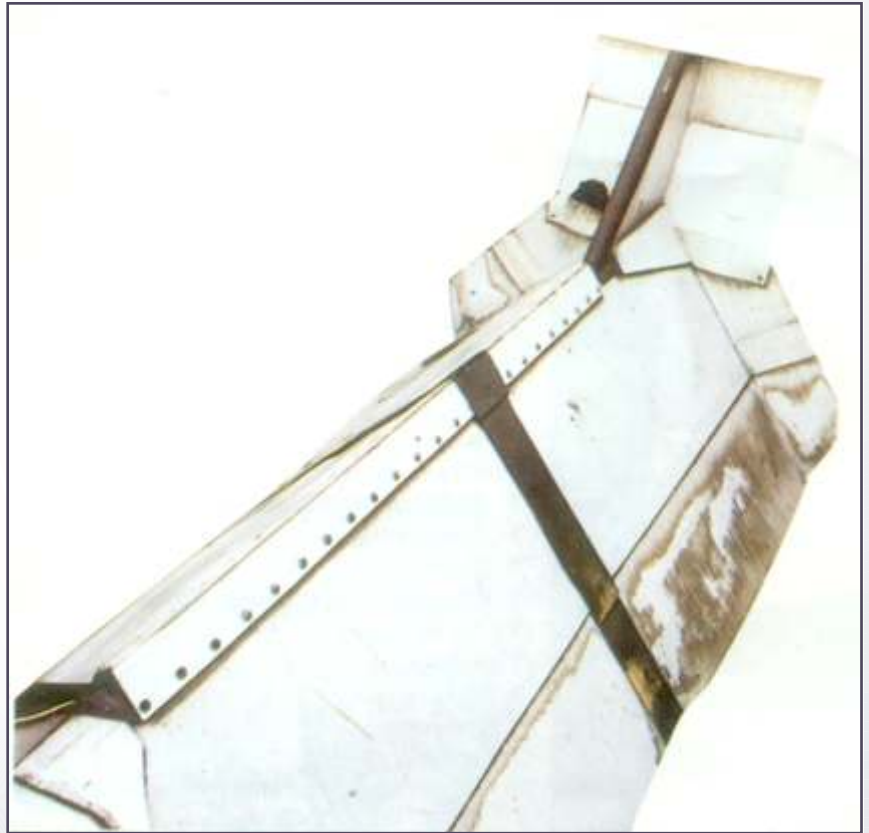
- ✍ Workable in Hydrochloric Acid.
- ✍ Inert to aggressive chemicals.
- ✍ Corrosion and Erosion resistance.
- ✍ Fumes, Ash, Dust resistance.
- ✍ Excellent for use in dilute sulphuric Acid.
- ✍ Plascon works in High Temperature and in Minus. Temp. in Chemical.
- ✍ Easy flow of salt, solvent & Powder material.
- ✍ Very easy movement of Fertilizer, Coal dust, Powder, Chalk, cement etc.
- ✍ Chocolate, Tobacco, Beet, Pyrite, Grains gets desired material flow.
- ✍ Does not swell.

### METHOD OF INSTALLATION OF PLASCON WEAR RESISTANT LINER PLATES

Plascon liners can be fitted to steel or concrete. Bunkers, Chutes, Silos etc. The surface on which the Liners are to be fitted must be reasonably flat and clean. Correct mounting of Plascon Wear Liner can assure satisfactory performance. In case Liner Plates are exposed to sunlight, Black, UV-Resistant Liners should be used. While installing the Liners the coefficient of expansion of UHMW Polyethylene "PLASCON" must be taken into consideration, since it is about 8 times lighter than steel. As such it is always recommended to mount the liners at the normal temperature of operation.

The Liners are normally laid lengthwise in the direction of flow of bulk material, each plate overlapping the next one by about 15 mm horizontally. Vertical joints are put edge to edge according to the necessities, Liners can also be put with horizontal and vertical joints edge to edge but staggered without any problem. Whenever lining has to be done on a curved surface without many divisions; several grooves are made on the backside of the liner to suit the corresponding region. In case of part of lining of Bunkers, the upper-most edge of the liner plate is covered by steel strips as safeguard against seepage of fine dusts.

The high resistance of UHMW polyethylene to solvents restricts the range of suitable adhesives for gluing with these bonding agents only moderate joint strength is achieved. There fore, the liners are fastened with mechanical fasteners like counter-sunk bolt, screw, dowel etc. For Lining concrete Silos fastening done by means of counter-sunk bolt with straddling dowel. In the case of steel Silos Liners are fastened by means of counter-sunk head bolts with nuts when mother plate can not be wasted. The pitch between the fasteners depending on the thickness of the Liner is maintained at 150 to 200 mm. A distance of about 50 mm is left from the edge of the liner while fixing the bolt.



### PLASCON LINER FOR BUCKET WHEEL EXCAVATORS



## PLASCON TRUCK/ WAGON LINING



Usual recommended thickness of liner is 15 & 20 mm. In crucial corner thickness can be increased. Plascon Liners are available in thickness up to 75 mm and above.

## PLASCON SPARE PARTS FOR MINING AND METAL PROCESSING INDUSTRIES

- ✎ Bearings
- ✎ Bucket Conveyor Housing for Cement Raw-Materials, Salt, Gypsum, Pyrite, Purple Ore, Moulding Sand, Titanium Ore, Raw Phosphate, Potassium Chloride
- ✎ Bushings, round with & without collar
- ✎ Chain Conveyor Wear Plates
- ✎ Conveyor Belt Scrappers, Flight Shoes, Guides, Idlers, Rollers, Skirt Boards, Wiper Rollers, Wear Bars Trough Lining
- ✎ Cooling Water Troughs
- ✎ Covers for Air Separators for Fine Coal Dus
- ✎ Exhaust Nozzles
- ✎ Gears
- ✎ Idlers-Sleeves, Bushings, Rollers
- ✎ Ducts, Hoods
- ✎ Pulleys
- ✎ Silos
- ✎ Sluices
- ✎ Spirals
- ✎ Wipers and Wiper Plates for Conveyor Belts and Disc or Drum Filters

## PLASCON LINING FOR POWER STATION COAL BUNKERS

