

E . Excellent in hydraulic pressure resistance :

The static hydrostatic pressure of **TAI-PORUX™ HOUSEWRAP** is excessive of 200cmH₂O. waterspout which can resist rain to seep into from outside.

F . More comfortable to live , To enhance the inhabitant quality :

To lay waterproof and permeable **TAI-PORUX™ HOUSEWRAP** in house can help indoor moisture discharge outward enabling to keep free of dew condensation and getting mildewed, and in result the air quality indoor can be elevated, more comfortable to live for people.

G . Light weight , Easy to construct :

The advantage of **TAI-PORUX™ HOUSEWRAP** house wrap membrane is light in weight, convenient to carry, and easy to install.



Profile of **TAI-PORUX™ HOUSEWRAP**

Left TPX-S type
Right TPX-W type

• The basic properties of TAI-PORUX™ HOUSEWRAP :

Properties	Method	TAI-PORUX™ (TPX-S)	TAI-PORUX™ (TPX-W)
Basic Weight	TAPPI T-41 (oz/lyd ²)	3.23	1.99
Breaking strength	ASTM D882 Method A (lbs/in) MD/CD	21.3/17.2	35.2/23.5
Tear Strength (trapezoid)	ASTM D-5733 (lbs) MD/CD	4.8/7.1	20.5/18.3
Elmendorf Tear Resistance	ASTM D-5734 (lbs) MD/CD	1.2/1.4	19.7/20.6
Air Penetration	Air - lins (cfm/ft ² @75Pa) Gurley Hill (TAPPI T-460) (sec/100cc)	0.031 458	~ 0 750
Water Vapor Transmission	ASTM E-96 Method B (g/m ² .24hr) (perms)	576 82.9	837.3 120.5
Water Penetration Resistance	AATCC 127 (cm)	483	Over 200
Weather	JIS L 1415&	Passed	Passed

TAI-PORUX™ HOUSEWRAP

UNIQUE TAI-PORUX™

New generation product
developed and applied to
the construction industry

Trading Agent :

UNIQUE PLASTICS CORPORATION

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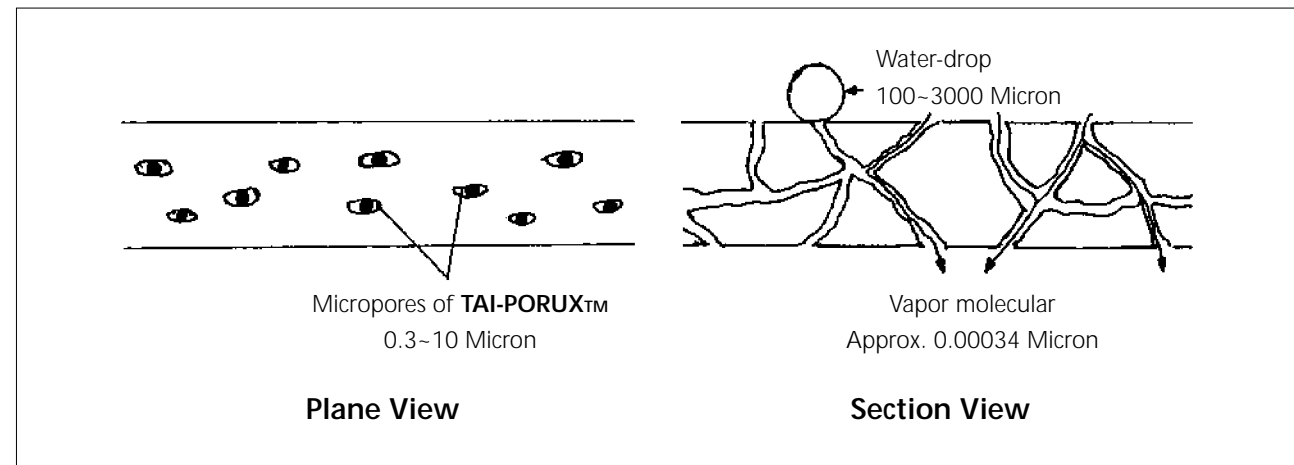
• An introduction of **TAI-PORUX™** :

TAI-PORUX™ is a product newly developed by UNIQUE PLASTICS CORPORATION. It is made from polyolefin, possessing microporous, waterproof and permeable functions .

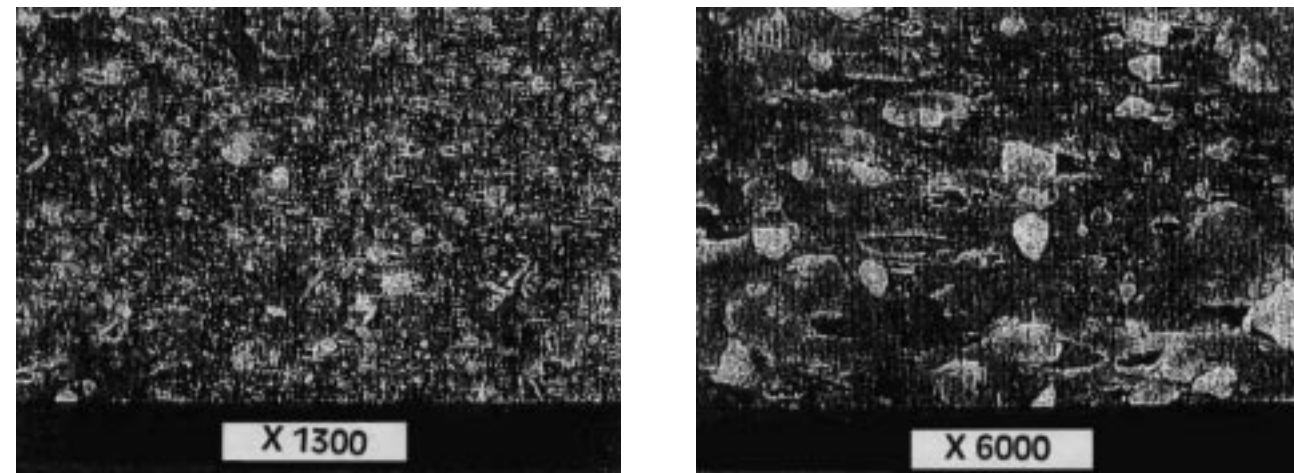
The **TAI-PORUX™** permeable film is particularly different from those products with tiny aperture made of micro-perforated punch which is easily to let rain getting into. So the **TAI-PORUX™** product can competely attain waterproof characteristics.

• The principles of waterproof for **TAI-PORUX™** :

The size of water-drop 100~3000 micron
 The size of vapor molecular Approx. 0.00034 micron
 The size of **TAI-PORUX™** microporous 0.3~10 micron



The pictures below explain that the moisture vapor can penetrate from micro aperture of **TAI-PORUX™**, but the water-drop can not. That is the principles of waterproof and permeability.



Microporous of **TAI-PORUX™**

• What the **TAI-PORUX™ HOUSEWRAP** Stands for ?

TAI-PORUX™ HOUSEWRAP, a new generation and cost saving material, is a composite material made of **TAI-PORUX™** film laminated with Polyester non-woven fabric or Polyethylene woven cloth. It has been extensively used for construction material .

The product falls into two categories : Note : (*) means not available now.

Product	composition	size	code
TAI-PORUX™ HOUSEWRAP	TAI-PORUX™ / PET Non-woven	1.0m x 50m	TPX - S1050
TAI-PORUX™ HOUSEWRAP	TAI-PORUX™ / PE woven cloth	1.0m x 50m	TPX - S1050
		1.5m x 30m	TPX - S1530
		1.0m x 30m	TPX - W1030
		* 1.5m x 30m	TPX - S1530
		2.1m x 20m	TPX - W2120
		* 2.7m x 20m	TPX - W2720
		* 3.0m x 15m	TPX - W3015



TAI-PORUX™ HOUSEWRAP in building structure



• The Characteristics of **TAI-PORUX™ HOUSEWRAP** :

A . Good strength , no breakage :

As Tensile strength attains Maximum 35.2lb/inch and tear strength attains Maximum 20.5lb, It is not easy to tear so as to ensure the house wrap's integrity and concretely prove the outstanding functionality of waterproof and permeability .

B . To guard against dew condensation in wall , and to enhance the house life expectancy :

It is more easy to creat dew condensation phenomenon in an interior wall because of the temperature distinction in warm and cold weather in the high airtight housing structure, which brings about the corrosion shown on the interior of structure and reduces the life expectancy of use. The waterproof and permeable **TAI-PORUX™ HOUSEWRAP** enables the moisture in an interior wall to eject outward through microporous and to prevent the dew condensation from occurance.

C . Remarkable function of waterproof and permeability :

The waterproof and permeable **TAI-PORUX™ HOUSEWRAP** can discharge indoor moisture through micropores. It's permeability can reach Maximum 837g/m².24hr, and it can completely resist rain to seep through.

D . Superior to wind protection :

As waterproof and permeable **TAI-PORUX™ HOUSEWRAP** carries special microporous structure with the high performance of air penetration rate towards to zero, the outside cold air getting into through permeable layer will not seep into the insulation material so as to maintain good optimum temperature effects enabling to make a comfortable living.