



# Construction Film - 4 mil Series

## Carthage Mills Series of 4 mil Construction Film

Includes the following products available in either NATURAL or BLACK.

- PX04-N20100
- PX04-B20100
- PX04-N2050
- PX04-B2050



### BASIC USES

Carthage Mills' polyethylene sheeting is used a wide variety of applications. Polyethylene provides an excellent vapor barrier for the protection of concrete slabs and foundations. Proper placement of polyethylene sheeting in walls during construction can almost completely prevent ambient air and moisture infiltration into homes and buildings, thus increasing their energy efficiency. Agricultural applications (black sheeting only) include retention of soil moisture, inhibition of weed growth, and coverage of pit and trench silos f inexpensive storage.

### LIFE EXPECTANCY

Product does not include UV inhibitor. Natura polyethylene sheeting is not recommended for greenhouse use or any other application involving longterm exposure to sunlight. Blac sheeting is recommended for applications not exceeding 90 days of sunlight exposure. Special additives are available at request for extended outdoor applications up to 2 yea

### SHELF LIFE

Polyethylene sheeting has a shelf life of approximately 2 years if not exposed to sunlight or extreme heat.

### OTHER LIMITATIONS

Check with the vendor for information on these and other limitations that may or may not

apply depending on the specific application and product.

### ADHESION

Due to the variety of resins and additives available, it is often difficult to bond two pieces of film together. Two adhesives that have proven to be successful in the past are Universal Adhesives' Spray Adhesive and DURO™ All Purpose Spray Adhesive distributed by Loctite Corporation.

### TEMPERATURE RANGE

Usable range for LDPE has been defined as -60F to 150F

ASTM D4397 Meets specs as outlined in table 1 below.

NIST 133 Film weight is calculated as required by the National Institute Standards Technology.

ASTM E154-99 Water vapor retarders used in contact with earth under concrete slabs, on walls or as ground cover.

PS 17-69 Public Standards 17.

ASTM C171 Standard Specification for Sheet Materials Used for Curing Concrete

PHYSICAL PROPERTY	TEST	MINIMUM VALUES
Tensile (md)	ASTM D 882 Method A	1700psi
Tensile (td)	ASTM D 882 Method A	1200psi
Elongation (md)	ASTM D 882 Method A	250%
Elongation (td)	ASTM D 882 Method A	350%
Water Vapor Permeance	ASTM E 96 Procedure E	<0.5 perms
Moisture Retention	ASTM C 156	<0.055g/cm <sup>2</sup>
Elmendorf Tear (md)	ASTM D 1922	400gm
Elmendorf Tear (td)	ASTM D 1922	800 gm
Coefficient of Friction	ASTM D 1894	Medium
Dart Impact	ASTM D 1709	160 gm

PROPERTY	TYPE	DESCRIPTION
Density	1	.920 - .925
Impact Strength	2	40 - 70 gm/mil
Coefficient of Friction	2	.20 - .40
Haze	3	> 9
Luminous Transmittance	0	Unspecified

### TECHNICAL DATA

Carthage Mills' polyethylene sheeting complies with most national, state and local specifications for concrete curing, vapor barrier applications, and other uses involving polyethylene sheeting.

LP378 Type 1, Class 1, Grade B, and Finish 1.

### RECYCLABILITY

This sheeting is rated as a CLASS 4 – LDPE for recycling purposes. The information presented on this data sheet has been established by company based laboratory testing. This information does not imply warranty by the company of product specifications, tolerances, or function in the end use.

- The properties reported above are effective 01/01/24 and are subject to change without notice.

Carthage Mills assumes no liability for the accuracy or completeness of this information or for the ultimate use by the purchaser. Carthage Mills disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.