



Construction Film

Carthage Mills Series of Construction Film

Includes the following specific products available in either natural or black, and in 4 mil, 6 mil, or 10 mil thicknesses.

- **PX04-N20100**
- **PX04-B20100**
- **PX06-N20100**
- **PX06-B20100**
- **PX10-N20100**
- **PX10-B20100**
- **PX04-N2050**
- **PX04-B2050**
- **PX06-N2050**
- **PX06-B2050**

BASIC USES

Carthage Mills' polyethylene sheeting is used in 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 for inexpensive storage.

LIFE EXPECTANCY

Product does not include UV inhibitor. Natural polyethylene sheeting is not recommended for greenhouse use or any other application involving longterm exposure to sunlight. Black 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 years.

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

Table 1

PHYSICAL PROPERTY	TEST METHOD	VALUE	EXPECTED VALUE
COF, Kinetic - In/Out	ASTM 1894	-----	< 0.25
WVTR	ASTM E 96	g/100 in ² /day	0.30
Tensile @ Peak MD	ASTM D 882 METHOD A	PSI	1700
Tensile @ Peak TD	ASTM D 882 METHOD A	PSI	1200
Elongation MD	ASTM D 882 METHOD A	%	250
Elongation TD	ASTM D 882 METHOD A	%	350
Elmendorf Tear MD	ASTM D 1922	gf	400
Elmendorf Tear TD	ASTM D 1922	gf	800
Dart Drop (26")	ASTM D 1709	g	165

TABLE 2

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 12-01-22 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.