



CERTIFICATION OF POLY WRAP

Accucast offers a complete assortment of Poly Wrap Material, from 18” to 108” widths and from 4 to 16 mil thick. All of our products are manufactured in accordance with AWWA standards and are manufactured in the USA.

4.1 Materials

- 4.1.1 Linear low density polyethylene film.
 - 4.1.1.1 Raw material requirements per ASTM D4978
 - Group: 2 (Linear)
 - Density: 0.0910 to 0.935 g/cm³
 - Dialectic strength: Volume relativity 10-15 ohm-cm, maximum
 - 4.1.1.2 Physical properties of finished film
 - Tensile strength: 3600 psi
 - Elongation: 800 percent, minimum in machine and transverse direction
 - Dielectric strength: 800 V/mil
 - Impact resistance: 600 g. minimum
 - Propagation tear resistance: 2550 gf
 - 4.1.1.3 Thickness: Linear low density polyethylene film shall have a minimum thickness of 0.008 in. (8 Mil)

Standard Specifications

Polyethylene Sheeting for Construction, Industrial, and Agricultural Applications

Reference ASTM D 4397 – 84 (Re-approved 1989)

This specification covers polyethylene sheeting .010 inches or 10 mils or less in thickness, intended for construction, industrial, and agricultural applications.

Materials

The sheeting shall be made from polyethylene or modified polyethylene, such as an ethylene copolymer consisting of a major portion of ethylene in combination, with a minor portion of some other monomer, or a mixture of polyethylene with a lesser amount of other polymers. This sheeting may be made of different colors, opacities, translucencies, and dimensions. It may contain additives or modifiers such as pigments and stabilizers.

General Requirements

Appearance - The sheeting shall have appearance qualities conforming with those produced by good commercial practices. There shall be no visible defects such as is commercially possible including streaks, pinholes, tears, blisters, or particles of foreign matter. The edges shall be free of nicks and cuts visible to the unaided eye.

Dimensions – The nominal thickness, width, and length of the sheeting in each roll shall be agreed upon between the buyer and the seller.

Tolerances –

Thickness: the thickness at any point, when measured according to ASTM Method C of Test Methods D374, shall not be less than 80% of the nominal thickness.

(Note) Measurements shall be made with a steel tape graduated at intervals of 1mm (1/16th in.) The roll shall be extended to its full length on a flat surface and all creases and buckles removed, insofar as practical, without applying stresses. Measurements of length shall be rounded to the nearest centimeter (inches). Width shall be measured to the nearest 1mm (1/16th in.) at not less than 10 locations uniformly distributed along the length of the roll, and the results averaged.

Minimum Net Weight: The actual net weight of each roll shall be not less than the nominal weight and shall, in turn, be the labeled net weight.

Detail Requirements

Color and Finish – The sheeting may be natural, color tinted, translucent, or opaque. The surface finish may be plain, printed, or otherwise treated as agreed upon between the buyer and the seller.

Impact Resistance – The average impact resistance shall not be less than the resistance specified in the below table when tested:

<u>Nominal Thickness (mils)</u>	<u>Impact Resistance</u>
1.0	40 Grams
1.5	65 Grams
2.0	85 Grams
3.0	125 Grams
4.0	165 Grams
5.0	205 Grams
6.0	280 Grams
7.0	315 Grams
8.0	370 Grams
9.0	420 Grams
10.0	475 Grams
30.0	1350 Grams

Mechanical Properties – The average tensile strength and elongation at break for all thicknesses of sheeting shall be as specified in the below table when tested:

	<u>Lengthwise</u>	<u>Cross</u>
	<u>Direction</u>	<u>Direction</u>
Tensile Strength, min. (psi)	1700	1200
Elongation, min. %	225	350

Luminous Transmittance - Black sheeting intended for exclusion of light and for maximum resistance to weathering shall have an average luminous transmittance not greater than 1%, when determined in accordance with the specification on luminous transmittance of ASTM D 2103.

(Note) All other properties are to be determined by agreement between the buyer and seller in accordance with the specifications contained in appropriate ASTM Standards.

Sampling – Samples for test purposes shall be taken at random from the total number of rolls in each shipment or lot according to Table 5 of ASTM D 4397. The test procedures will be in accordance with those found in the above ASTM standard.

All matters relating to quality and performance specifications shall be according to ASTM D 4397.