

POLYCASE LINEAR LOW DENSITY POLYETHYLENE ENCASUREMENT PRODUCTS



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**8 MIL LINEAR LOW DENSITY POLYETHYLENE AND BIOFILM®**

PHYSICAL ATTRIBUTE	TEST DIRECTION	ANSI/AWWA C105/A21.5 MINIMUM REQUIREMENT	VIRGIN LINEAR LOW DENSITY POLYCASE TYPICAL TEST VALUES
TENSILE STRENGTH ASTM D882	MACHINE DIRECTION TRANSVERSE DIRECTION	3600 psi 3600 psi	4635 psi 4216 psi
ELONGATION ASTM D882	MACHINE DIRECTION TRANSVERSE DIRECTION	800% 800%	948% 1012%
DIELECTRIC STRENGTH ASTM D149 (VOLTS / MIL)	THICKNESS	800 volts / mil	1786 volts / mil
IMPACT RESISTANCE ASTM D1079 (grams)	THICKNESS	600 grams	928 grams
PROPAGATION TEAR RESISTANCE (gf)	MACHINE DIRECTION TRANSVERSE DIRECTION	2550 grams/force 2550 grams/force	4082 grams/force 6159 grams/force

**Ductile Iron Pipe Size's and Corresponding Polyethylene Film Layflat Size**

4" - 6" 16" Layflat  
 8" 20" Layflat  
 10" 24" Layflat  
 12" 27" Layflat  
 14" 30" Layflat  
 16" 34" Layflat  
 18" 37" Layflat  
 20" 41" Layflat  
 24" 54" Layflat  
 30" 67" Layflat  
 36" - 42" 81" Layflat  
 48" 95" Layflat  
 54" - 60" 108" Layflat  
 64" 121" Layflat

Supplied as 8mil Black Linear Low-Density Film  
 Printed per ANSI/AWWA C105/A21.5

FOR PRODUCT NOT SHOWN IN OUR STANDARD STOCK TUBE SIZES WE CAN PROVIDE FILM DESIGNED TO MEET YOUR MOST DEMANDING REQUIREMENTS

THE FOLLOWING GUIDELINES ARE APPLICABLE FOR SPECIALTY POLYETHYLENE FILM:

THICKNESS:	10-12-15-20-24-30 MILS.
TUBE SIZE:	LIMITED TO MANAGEABLE WEIGHT
COLORS:	BLACK (Standard) - COLORS (Special)
SPECIAL MINIMUM:	DETERMINED BY REQUIREMENT
LEAD-TIME:	APPROXIMATELY 6 WEEKS

**WE TAKE CORROSION CONTROL SERIOUSLY:**

**EVERY ROLL IS INDIVIDUALLY SLEEVED IN UV PROTECTIVE WRAP**

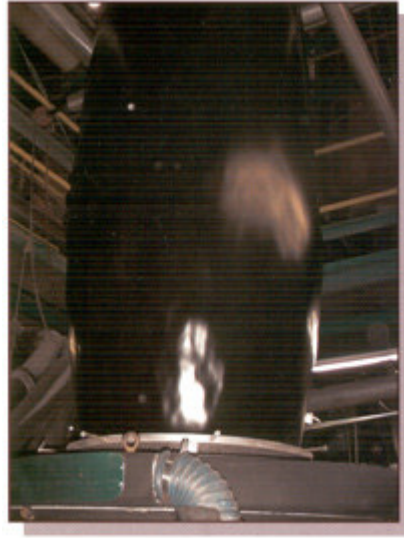
**EVERY ROLL BEARS LOT CONTROL SERIAL NUMBER**

**EVERY ROLL MADE FROM 100% VIRGIN POLYMERS TO RESIST BIO-DEGRADATION**

Polycase encasement film is a carefully engineered linear low density virgin polyethylene resin film designed to meet the requirements of the ANSI/AWWA C105/A21.5-05 standard.

Carefully controlled molten resin is forced under high pressure through a die-head producing a bubble of polyethylene in a vertical column. The resulting tube is cooled and gathered onto spooling equipment at the top of the column.

Film strength characteristics are referred to as strength in the machine direction (direction of travel through the die-head), and the transverse direction (perpendicular to the machine direction). Minimum acceptable test values should consider both MD and TD.



Polycase encasement film is continuously monitored for thickness and tube size. Each roll contains control identification traceable to actual mill test reports, virgin resin tests, and applicable ASTM test data.

High speed printing plates provide printing as required by Sect. 4.3.1 of ANSI/AWWA C105.



Finished Polycase is wound onto shipping tubes. Lot control labels are applied to the inside of each shipping tube and the product is prepared for shipment.

Years of effort have gone into the establishment of the ANSI/AWWA C105/A21.5-05 American National Standard for polyethylene encasement for ductile-iron pipe systems. This quality polyethylene encasement film product which meets this minimum standard does not "just happen". The required design parameters must be defined. Product engineers must determine what raw materials and processes are necessary to meet the design characteristics. We know, from our own experience and testing, that only quality, virgin, materials that meet the criteria of the standard; coupled with proper manufacturing processes, will yield the required finished film physical properties. We are proud to offer certification per Section 5.1 of the standard.

