



THE STRENGTH OF **AmericanTilapia**

# APPLICATION

Americantilapia® HDRPE 40 mills, 45 year (High Density Reinforced polyethylene) Composite Geomembrane. NSF certified for drinking water. Our HDRPE 40 is ideal for impermeability and fluid containment applications such as agriculture, aquaculture, mining, infrastructure, containment, wastewater, long term covering, reservoirs, tanks, landfills and thousands of other uses.

# HDRPE 40/45



**MOST DURABLE AND RESISTANT**

PROPERTY	TEST/METHOD	TYPICAL VALUE <sup>1</sup>		MIN. AVE. ROLL VALUE <sup>2</sup>	
		ENGLISH	METRIC	ENGLISH	METRIC
Weight	ASTM D751	20.8 oz./yd <sup>2</sup>	705 g/m <sup>2</sup>	18 oz./yd <sup>2</sup>	610 g/m <sup>2</sup>
Thickness	ASTM D751	40 mil	1.01 mm	36 mil	0.91 mm
Strip Tensile Strength (MD)	ASTM D7003	303 lbf	1348 N	250 lbf	1100 N
Strip Tensile Strength (CD)	ASTM D7003	265 lbf	1179 N	250 lbf	1100 N
Strip Tensile Elongation (MD)	ASTM D7003	22%		20%	
Strip Tensile Elongation (CD)	ASTM D7003	22%		20%	
Tongue Tear (MD)	ASTM D5884	60 lbf	302 N	50 lbf	225 N
Tongue Tear (CD)	ASTM D5884	62 lbf	334 N	50 lbf	225 N
CBR Puncture	ASTM D6241	1400 lbf	6228 N	1000 lbf	4400 N
Index Puncture Resistance	ASTM D4833	242 lbf	1076 N	200 lbf	890 N
Hydrostatic Resistance	ASTM D751	740 lb/in <sup>2</sup>	5102 kPa	700 lb/in <sup>2</sup>	4800 kPa
Dimensional Stability <sup>3</sup>	ASTM D1204	2.85%		3%	
Water Vapor Transmission <sup>4</sup>	ASTM E96 (BW)	0.08 g/m <sup>2</sup> day		< 0.3 g/m <sup>2</sup> day	
High Pressure Oxidation Induction Time <sup>4</sup>	ASTM D5885	> 400 minutes		> 400 minutes	
UV Resistance (Fluorescent Light Method) <sup>4</sup>	ASTM D7238				
a) Strength & Elongation retained after 10,000 light hours	ASTM D7003	> 90% retained		> 50% retained	
b) High Pressure OIT (minutes average) % retained after 1,600 hours	ASTM D5885	> 50% retained		> 50% retained	
Grab Tensile Strength (MD)	ASTM D7004	463 lbf	2504 N		
Grab Tensile Strength (CD)	ASTM D7004	397 lbf	1766 N		
Trapezoidal Tear (MD)	ASTM D4533	73 lbf	325 N		
Trapezoidal Tear (CD)	ASTM D4533	69 lbf	307 N		
Hydraulic Conductivity	ASTM E96 (BW)	1.0 x 10 <sup>-14</sup> cm/sec			
Carbon Black Content	ASTM D4218	> 2%			
Low Temperature Brittleness	ASTM D2136	Pass (@ -60°F)	Pass (@ -51°C)		
Standard Roll Width		12 ft	3.7 m		
Standard Roll Length		1250 ft	381 m		
Approximate Roll Weight		2200 lb	998 kg		

**LAST LONGER  
EASIER TO INSTALL.  
CONTAINS BETTER.®**

FOR WATER RETENTION, CONTAINMENT,  
AQUACULTURE PONDS &  
CANAL LINING APPLICATIONS.

[www.americantilapia.com](http://www.americantilapia.com)



## BE WATER SMART

Americantilapia® HDRPE 40 mill, 45 year, thick, polyethylene Reinforced Composite Geomembrane (RCG), specifically designed for use in water retention and containment applications. The durable, stress crack resistant, lightweight construction provides outstanding performance in many different climates and environmental conditions.

## EASIER TO INSTALL



## LAST LONGER



## CONTAINS BETTER



# THE STRENGTH OF

# Americantilapia



# HDRPE 40/45

### STRONG CONSTRUCTION

- 40 mills, our thickest geomembrane
- Inner woven core layer provides dimensional stability with impressive tensile and tear strength

### OUTSTANDING PROTECTION

- Puncture, abrasion and chemical resistant construction
- Excellent hydrostatic resistance
- All layers contain UV protection

### MEETS INDUSTRY STANDARDS

- Non-toxic, no PVC or other hazardous materials used in the construction of the geomembrane
- Impressive UV, ozone and oxidation resistance



UV resistant SurFlex™ technology provides excellent welding characteristics, reduces stress cracking and makes it easy to seam in the factory or field

### HDPE HIGH STRENGTH WOVEN CORE

For outstanding dimensional strength and stability

### ENGINEERED LLDPE/LDPE COATING

For flexibility, chemical resistance and protection against UV, ozone and oxidation



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