



PRODUCT DESCRIPTION

GeoFlex PP30 and PP40 are exceptionally flexible geomembranes achieved by incorporating high levels of ethylene propylene rubber into polypropylene. GeoFlex polypropylene membranes contain no plasticizers that can leach out and hinder long-term flexibility and performance. GeoFlex fPP-Series provides outstanding resistance to environmental stress cracking even at elevated temperatures and in addition to aggressive chemical environments.

PRODUCT USE

GeoFlex PP30 and PP40 are used in a wide variety of applications that require a unique combination of mechanical toughness, exceptional flexibility and environmental resistance. Our polypropylene geomembranes meet the requirement of GRI-GM18 for flexible polypropylene non-reinforced geomembranes. GeoFlex fPP-Series offers a high-friction angle which reduces concerns for side slope stability. A low coefficient of thermal expansion significantly reduces wrinkling in a wide range of temperatures. This product may be considered for containment of leachates from typical Municipal Solid Waste per EPA 9090 testing in addition to black liquor from paper manufacturing.

SIZE & PACKAGING

GeoFlex PP30 is available as a custom run product with minimum order requirements. GeoFlex PP40 is available in up to 40,000 square foot panels. All panels are accordion folded every 5 feet, and tightly rolled onto a heavy-duty core for ease of handling and time-saving installation.



Containment Liner

PRODUCT

PART

HYDRAFLEX™ PP30

HYDRAFLEX™ PP40

APPLICATIONS

- | | |
|-------------------------|--------------------|
| Canal Linings | Evaporation Ponds |
| Decorative Ponds | Mine Tailing Ponds |
| Landfill Caps | Fire Ponds |
| Waste Lagoon Ponds | Remediation Liners |
| Golf Course Water Traps | Farm Ponds |
| Brine Ponds | Fish Hatcheries |
| Aquaculture | |



PROPERTIES	TEST METHOD	GEOFLEX PP30		GEOFLEX PP40	
		MIN. ROLL AVERAGES	TYPICAL ROLL AVERAGES	MIN. ROLL AVERAGES	TYPICAL ROLL AVERAGES
THICKNESS MIL	ASTM D5199	27 mil	30 mil	36 mil	40 mil
WEIGHT		120 lbs/MSF	140 lbs/MSF	160 lbs/MSF	188 lbs/MSF
³ TENSILE STRENGTH	ASTM D6693	72 lbf	85 lbf	82 lbf	95 lbf
³ ELONGATION AT BREAK	ASTM D6693	700 %	800 %	700 %	800 %
³ TEAR RESISTANCE	ASTM D1004	10 lbf	11.5 lbf	13 lbf	14 lbf
PUNCTURE RESISTANCE	ASTM D4833	35 lbf	39 lbf	41 lbf	45 lbf
LOW TEMP BRITTLINESS	ASTM D2136 Method B	pass, @ -40° F	pass, @ -85° F	pass, @ -40° F	pass, @ -85° F
DIMENSIONAL STABILITY % CHANGE	ASTM D1204	< 1 %		< 1 %	
CARBON BLACK CONTENT	ASTM D1603	> 2 %	2.5 %	> 2 %	2.5 %
WVTR	ASTM E96 Method A 73° F, 50% RH	1.84 grains/ft ² /day		1.64 grains/ft ² /day	
MULTI-AXIAL ELONGATION	ASTM D5617	120 %	200 %	120 %	200 %
MAXIMUM STATIC USE TEMP		180° F		180° F	
MINIMUM STATIC USE TEMP		- 70° F		- 70° F	

³ Tests are an average of machine and transverse

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Note: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. Chemical resistance, odor transmission, longevity as well as other performance criteria is not implied or given and actual testing must be performed for applicability in specific applications and/or conditions. GeoCHEM, Inc. MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.

GeoCHEM, INC. / Engineered Films Division
 Sales & Procurement Center - Phone No. (907) 562-5755 ~ Fax No. 206.219.3740
 WA State Sales - Phone No. (206) 774.8777 ~ Toll Free: 1 (800) 490.5320
 GeoCHEM Website: <http://www.geocheminc.com>
 Contact Us: <http://www.geocheminc.com/contactus.htm>