

Flexible & Extremely Durable



RPP REINFORCED POLYPROPYLENE

FEATURES

- RPP provides manufacturer warranties of 10, 15 & 20 years
- RPP is fish friendly and NSF 61 certified for potable drinking water
- Flexible and extremely durable
- Available in custom size panels, which makes for quick installation
- RPP is UV stable and available in a variety of different colors
- Available in 30, 36, 45 & 60 mil thicknesses

RPP is a heat-weldable polyester reinforced sheet designed for floating covers and liners in potable and industrial water containment applications. The membrane is specifically formulated for long-term use in buried or exposed geomembrane applications and is based on a UV-stabilized polypropylene copolymer that does not require either polymeric or liquid plasticizers to maintain flexibility. It is a proven solution to many containment needs due to its excellent puncture resistance and UV stability.

APPLICATIONS

- Potable water storage
- Wastewater treatment ponds
- Baffle curtains
- Golf course ponds
- Floating covers
- Drop-in & large tank liners
- Ballast tubes
- Irrigation reservoirs and canals
- Freshwater storage for oil & gas industry

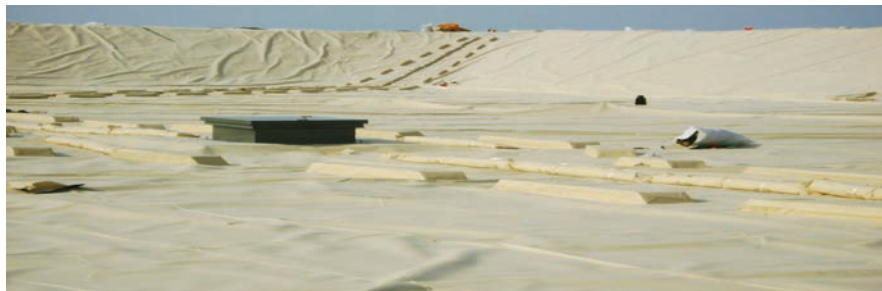
FOR MORE INFO CALL 800.524.8672



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VERSION UPDATE 05.05.17

Product Data



RPP Material Information

Flexible Polypropylene Nonreinforced (fPP) and Reinforced (fPP-R) Geomembranes

Property	Test Method ASTM or GRI	fPP 30 mils	fPP 40 mils	fPP 60 mils	fPP-R 36 mils	fPP-R 45 mils	fPP-R 60 mils	Testing Frequency (minimum)
Mass per Unit Area – lb/ft ² (min. ave.)	D5261	0.12	0.16	0.20	0.15	0.18	0.24	15,000 lb
Thickness Nominal (mils) min. ave. (mils)	D5199	30 27	40 36	60 54	36 32	45 40	60 54	per roll
Tensile Strength dumbbell ⁽¹⁾ lb/in. (min. ave.) grab ⁽¹⁾ lb (min. ave.)	D6693-IV D7004	60 -	72 -	96 -	- 200	- 250	- 300	15,000 lb 15,000 lb
Tensile Elongation dumbbell ^(1,2) % (min. ave.) grab ⁽¹⁾ % (min. ave.)	D6693-IV D7004	700 -	700 -	700 -	- 22	- 22	- 22	15,000 lb 15,000 lb
Multiaxial Elongation - %	D5617	120	120	120	-	-	-	formulation
Tear Resistance nonreinforced ⁽¹⁾ lb (min. ave.) reinforced ⁽¹⁾ lb (min. ave.)	D1004 D5884	10 -	12 -	18 -	- 55	- 55	- 55	15,000 lb 15,000 lb
Puncture Resistance – lb (min. ave.)	D4833	25	30	40	75	85	100	15,000 lb
Ply Adhesion – lb/in. (min. ave.)	D6636	-	-	-	15	15	15	15,000 lb
Low Temperature Flexibility - °F	D2136 ⁽³⁾	-40	-40	-40	-40	-40	-40	formulation
Carbon Black Content ⁽⁴⁾ - %	D4218	2-15	2-15	2-15	2-15	2-15	2-15	45,000 lb
Ultraviolet Light Resistance ^(5,6) (a) % strength retained after 20,000 light hrs. or (b) % elongation retained after 20,000 light hrs. and (c) Surface Cracking Observation after 20,000 light hrs. (d) Surface Chalking (or Powdering) after 20,000 light hrs.	D7238 @ 70°C D6693-IV D6693-IV GM16 GM23	≥50			≥50			per formulation

(1) Test methods modified to 20 in./min. for unreinforced and 12 in./min. for reinforced

(2) Calculation based on a 2.0 in. gage length

(3) Using 1/8 in. mandrel for 4-hours.

(4) Applicable only to black geomembranes. Also D1603 is an acceptable method to determine carbon black content.

(5) The conditions of the UV Fluorescent exposure method should be 20 hr. UV

cycle at 70°C followed by 4 hr. condensation at 60°C.

(6) See Section 5.2 for fPP-R geomembranes.

FOR SALES INFORMATION

Corporate Headquarters - Denver: 800.524.8672 / 303.841.2022

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CLI has over 35 years of experience in the geosynthetics industry, and we offer custom Design-Build solutions that are cost effective and reliable. Our services include Geomembrane and Spray Coating Materials, Custom Fabrication, and Certified Installation.