

PRODUCT DESCRIPTION

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

PRODUCT USE

RUFACO PP30 and PP40 are used in a wide variety of applications that require a unique combination of mechanical toughness, exceptional flexibility and environmental resistance. Raven's polypropylene geomembranes also offer 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

RUFACO PP30 is available in up to 33,000 square foot panels. **RUFACO PP40** is available in up to 25,000 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 NUMBER
RUFACO PP30	PP30
RUFACO PP40	PP40

COMMON APPLICATIONS

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

PROPERTIES	TEST METHOD	RUFACO PP30		RUFACO PP40	
		Min. Roll Average	Typical Roll Average	Min. Roll Average	Typical Roll Average
THICKNESS MIL	ASTM D5199	27.0	30.0	36.0	40.0
WEIGHT		126 lbs/MSF 614 g/m ²	140 lbs/MSF 683 g/m ²	169 lbs/MSF 825 g/m ²	188 lbs/MSF 917 g/m ²
TENSILE STRENGTH AT BREAK (LB/IN WIDTH)	ASTM D638	60	76	72	92
ELONGATION AT BREAK (%)	ASTM D638	700	800	700	800
TEAR RESISTANCE (LBF)	ASTM D1004	10	11.5	12	15.0
HYDROSTATIC RESISTANCE (PSI)	ASTM D751	70	75	90	95
PUNCTURE RESISTANCE (LBF)	ASTM D4833	25	30	30	38
VOLATILE LOSS METHOD A	ASTM D1203		< 1%		< 1%
LOW TEMP, IMPACT FAILURE TEMP	ASTM D2136	-40° C	-65° C	-40° C	-65° C
DIMENSIONAL STABILITY % CHANGE	ASTM D1204		< 1		< 1
CARBON BLACK CONTENT (%)	ASTM D1603	2.0	2.5	2.0	2.5
WVTR g H₂O/100 in²/24 hrs (g/m²/24 hrs)	ASTM E96 Method A 73° F, 50% RH		0.083 (1.3)		0.074 (1.1)



Note: RAVEN INDUSTRIES 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.

PLANT LOCATION

Sioux Falls, South Dakota

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