



**NORTHWEST LININGS &
GEOTEXTILE PRODUCTS, Inc.**

"Helping to Protect the Environment"

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REINFORCED POLYPROPYLENE GEOMEMBRANE (RPP)

PRODUCT DESCRIPTION

RPP⁶ is a flexible polypropylene geomembrane produced from first quality resins. RPP is chemically inert, enabling the material to maintain flexibility throughout its use. With a low coefficient of thermal expansion and a low modulus of elasticity, RPP has fewer wrinkles thereby conforming better to uneven subgrade. RPP geomembranes have been formulated to be resistant to chemicals, ultraviolet degradation and leaching additives.

PROPERTY	METHOD	FREQUENCY ¹	RPP36	RPP45
Thickness (nominal) ² (mils)	ASTM D751	per roll	36	45
Thickness (minimum) ³ (mils)			34	41
Weight per Unit Area (g/sf)	ASTM D5261	50,000 sf	70	84
Tensile Properties	ASTM D751	50,000 sf		
• Grab Strength MD	Method A		275	275
• Grab Strength TD			250	250
Tear resistance ⁴ (min. ave.) (lb.)	ASTM D751	50,000 sf	70	70
Ply Adhesion ⁴ (lb. of FTB)	ASTM D751	50,000 sf	30	30
Puncture Resistance (min. ave.) (lb.)	FTMS 101C Method 2031	50,000 sf certified	300 lbs	300 lbs
Dimensional Stability (max)(%)	ASTM D1204	resin batch	+/-1.0	+/-1.0
Hydrostatic Resistance (psi)	ASTM D751 Method A, Proc. 1	certified	350	350
Low Temp Flexibility	ASTM D2136 1/8" Mandrel, 4 Hrs	certified	-40F	-40F
Stress Crack Resistance (hrs)	ASTMD1693	certified	5,000	5,000
UV Resistance (hrs) ⁶	ASTM G155	certified	12,000	12,000
Resistance to Soil Burial (% Tensile Retention)	ASTM D3083 (Part 9.5)	certified	90% min.	90% min.
Reinforcing Scrim	9 X 9, 1000 denier weft-inserted polyester for all material thicknesses.			
Factory Seam Properties				
Bonded Seam Strength	ASTM D751		200 lb min	200 lb min
Peel Adhesion(lbs/in min)	ASTM D413		20 lb/in	20 lb/in

NOTES:

¹ Testing frequencies are rounded to the nearest full roll.

² Nominal thickness is based on no coupon being less than 10% under specified thickness. Average thickness may be less than specified thickness.

³ Minimum thickness is based on average thickness being equal to or greater than specified thickness.

⁴ Peak value.

⁵ RPP black/black and tan/black is available in accordance with ANSI/NSF 61 standard and can be used for both potable and industrial applications.

⁶ Allow four (4) months lead-time to fully evaluate long term UV resistance of the color.

The information and data contained herein are believed to be accurate and reliable. Northwest Linings makes no warranty of any kind and accepts no responsibility for the results obtained through application of this information