



ERTHA RPP Series

REINFORCED POLYPROPYLENE GEOMEMBRANE LINER
PRODUCT DATA SHEETS

ERTHA™ IS A SERIES OF PRODUCTS WHOLLY-OWNED BY GEOSOLUTIONS, INC.

RPP 36

36 Mil Scrim Reinforced
Polypropylene Geomembrane Liner



Meets GRI GM-18 / NSF Standard 61 / AS4020 / FGI RPP Specification

COATED FABRIC SPECIFICATIONS

Total Thickness (nominal)	4 inch I.D. or 5 inch I.D. available (10 cm or 13 cm)
Thickness (minimum avg)	Up to 150 in (381 cm) (-0, +0.5) as ordered
Weight (nominal)	Minimum 250 yds/roll (229 m); up to 1000 yds/roll (914 m)
Coating Type	TPO / fPP

REVISION DATE: 27 Feb 2023 | EXPIRY DATE: 6 Jan 2027



MATERIAL PROPERTIES

	TEST METHOD	MINIMUM	TYPICAL
Breaking Strength (warp/fill)	ASTM D751A	275 / 250 lbs.	315 / 300 lbs.
Break Elongation (warp/fill)	ASTM D751A	22 / 22%	35 / 35%
Tear Strength (warp/fill)	ASTM D5884	100 / 100 lbs.	140 / 140 lbs.
Hydrostatic Resistance	ASTM D751A	350 psi	400 psi
Puncture Resistance (pyramid)	Method 2031	300 lbs.	325 lbs.
Puncture Resistance (flat tip)	ASTM D4833	75 lbs.	85 lbs.
Ply Adhesion	ASTM D751	45 lbs. / 2 in.	45 lbs. / 2 in.
Dimensional Stability	ASTM D1204	1% (max)	0.5% (max)
Abrasion Resistance (H18/1 kg)	ASTM D3389	7,500 cycles	10,000 cycles
Low Temperature Bend	ASTM D2136	-40°F (max)	-40°F (max)
UV Resistance - No chalking/cracking	ASTM D7238	20,000 hrs.	40,000 hrs.
Uv Resistance (20K hrs) - Tensile Strength and elongation retained	ASTM D751	> 50%	> 92%
Bonded Seam Strength	ASTM D7749	200 lbs.	240 lbs.
Seam peel adhesion	ASTM D6636	20 lbs. / in.	30 lbs. / in.

The information provided by GeoSolutions is based on our manufacturer's research and is considered accurate, but we do not provide any warranty, expressed or implied, regarding the accuracy of this data or the results obtained from its use. The presented values are typical data and are not intended as limiting specifications. They represent the minimum expected measurements at the time of manufacture and are subject to revision as additional knowledge and experience are gained. Please contact a GEO Pro for additional information on warranties or values presented. We also do not guarantee that any use of this information will not infringe upon any patent. It is the sole responsibility of the user to determine the suitability and use of the information and materials provided for their specific application. GeoSolutions is not an installer of geosynthetic membranes, and the information is only provided as a guideline and not as an authority. GeoSolutions will not be held liable for the installation of geosynthetic membranes by others. Our standard terms and conditions of sale apply to all orders, and we exclude all liability for damages, including consequential damages exceeding the purchase price. No one is authorized to make oral warranties on our behalf, and we reserve the right to make changes without notice or obligation in our products and publications.





RPP 45

45 Mil Scrim Reinforced
Polypropylene Geomembrane Liner

Meets GRI GM-18 / NSF Standard 61 / AS4020 / FGI RPP Specification

COATED FABRIC SPECIFICATIONS

Total Thickness (nominal)	45 mils
Thickness (minimum avg)	41 mils
Weight (nominal)	0.19 lbs/ft ²
Coating Type	TPO / fPP

REVISION DATE: 27 Feb 2023 | EXPIRY DATE: 4 Jan 2027



RPP 45

45 Mil Scrim Reinforced Polypropylene Geomembrane Liner



MATERIAL PROPERTIES

	TEST METHOD	MINIMUM	TYPICAL
Breaking Strength (warp/fill)	ASTM D751A	300 / 250 lbs.	350 / 325 lbs.
Break Elongation (warp/fill)	ASTM D751A	22 / 22%	35 / 35%
Tear Strength (warp/fill)	ASTM D5884	100 / 100 lbs.	140 / 140 lbs.
Hydrostatic Resistance	ASTM D751A	350 psi	450 psi
Puncture Resistance (pyramid)	Method 2031	300 lbs.	350 lbs.
Puncture Resistance (flat tip)	ASTM D4833	85 lbs.	90 lbs.
Ply Adhesion	ASTM D751	40 lbs. / 2 in.	50 lbs. / 2 in.
Dimensional Stability	ASTM D1204	1% (max)	0.5% (max)
Abrasion Resistance (H18/1 kg)	ASTM D3389	7,500 cycles	10,000 cycles
Low Temperature Bend	ASTM D2136	-40°F (max)	-40°F (max)
UV Resistance - No chalking/cracking	ASTM D7238	20,000 hrs.	40,000 hrs.
Uv Resistance (20K hrs) - Tensile Strength and elongation retained	ASTM D751	> 50%	> 92%
Bonded Seam Strength	ASTM D7749	200 lbs.	260 lbs.
Seam peel adhesion	ASTM D6636	20 lbs. / in.	35 lbs. / in.

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