

RPP GEOMEMBRANE LINERS

PRODUCT DATA SHEETS

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 in I.D. or 5 in 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

For more information about [PVC Geomembrane Liners](#), contact Inside Sales at infogeo@ferguson.com or visit us at fergusonwaterworks.com

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36 MIL SCRIM REINFORCED POLYPROPYLENE GEOMEMBRANE LINER

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.

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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

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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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60 MIL SCRIM REINFORCED POLYPROPYLENE GEOMEMBRANE LINER



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

COATED FABRIC SPECIFICATIONS

Total Thickness (nominal)	60 mils
Thickness (minimum avg)	54 mils
Weight (nominal)	0.26 lbs/ft ²
Coating Type	TPO

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60 MIL SCRIM REINFORCED POLYPROPYLENE GEOMEMBRANE LINER

MATERIAL PROPERTIES

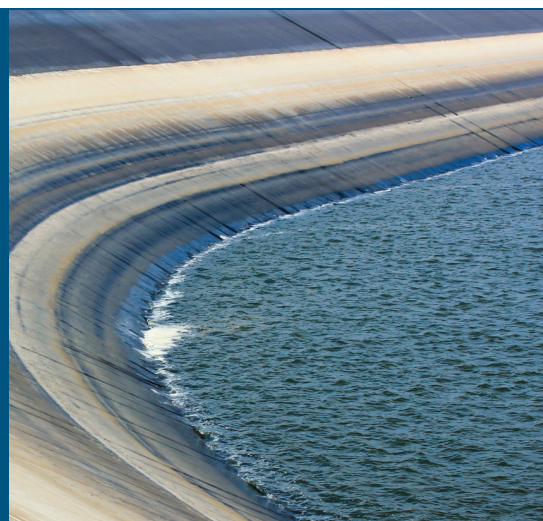
	TEST METHOD	MINIMUM	TYPICAL
Breaking Strength (warp/fill)	ASTM D751A	325 / 300 lbs.	385 / 365 lbs.
Break Elongation (warp/fill)	ASTM D751A	22 / 22%	35 / 35%
Tear Strength (warp/fill)	ASTM D5884	100 / 100 lbs.	140 / 140 lbs.
Hydrostatic Resistance	ASTM D751A	350 psi	425 psi
Puncture Resistance (pyramid)	Method 2031	300 lbs.	375 lbs.
Puncture Resistance (flat tip)	ASTM D4833	100 lbs.	115 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	10,000 cycles	12,000 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.	290 lbs.
Seam Peel Adhesion	ASTM D6636	20 lbs. / in.	40 lbs. / in.

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RPE GEOMEMBRANE LINERS

PRODUCT DATA SHEETS

30 MIL REINFORCED POLYETHYLENE GEOMEMBRANE LINER



COATED FABRIC SPECIFICATIONS

Total Thickness	30±2 mils	Coating Type	Polyethylene
Total Weight (nominal)	18 oz/yd ²	Sealing Properties	<input type="checkbox"/> Dielectric <input checked="" type="checkbox"/> Thermal

MATERIAL PROPERTIES

	TEST METHOD	MINIMUM	TYPICAL
Tensile Strength, Grab (warp/fill)	ASTM D751A	250 / 250 lbs.	300 / 265 lbs.
Tensile Elongation, Grab (warp/fill)	ASTM D751A	25 / 25%	35 / 40%
Tear Strength, Tongue (warp/fill)	ASTM D5884	80 / 80 lbs.	161 / 188 lbs.
Puncture, Rod	ASTM D4833	75 lbs.	96 lbs.
Ply Adhesion Strength	ASTM D751	20 lbs. / in.	25 lbs. / in.
Low Temperature Bend	ASTM D2136	-70°F	-70°F
Abrasion Resistance (H18 / 1 kg)	ASTM D3389	5,000 cycles	6,000 cycles
Ozone Resistance (100 pphm @ 40°C)	ASTM D1149	Pass	Pass
Oxidative Induction Time	ASTM D3895	100 minutes	385 minutes
Hydraulic Conductivity	ASTM E96	1.0 x 10 ⁻¹² cm/sec	1.0 x 10 ⁻¹² cm/sec
Seam Shear Strength	ASTM D7747	90 lbs. / in.	97 lbs. / in.
Seam Peel Strength	ASTM D6636	20 lbs. / in.	36 lbs. / in.

Comments: This product is certified to AS4020 and NSF Std 61 for potable water containment.
This product meets the requirements of GRI GM-25 (Category 3 – Standard) specification.

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36 MIL REINFORCED POLYETHYLENE GEOMEMBRANE LINER



COATED FABRIC SPECIFICATIONS

Total Thickness 36±3 mils

Coating Type

Polyethylene

Total Weight (nominal) 22 oz/yd²

Sealing Properties

☐ Dielectric ☒ Thermal

MATERIAL PROPERTIES

	TEST METHOD	MINIMUM	TYPICAL
Tensile Strength, Grab (warp/fill)	ASTM D751A	250 / 250 lbs.	300 / 280 lbs.
Tensile Elongation, Grab (warp/fill)	ASTM D751A	25 / 25%	45 / 35%
Tear Strength, Tongue (warp/fill)	ASTM D5884	80 / 80 lbs.	115 / 200 lbs.
Puncture, Rod	ASTM D4833	80 lbs.	95 lbs.
Ply Adhesion Strength	ASTM D751	20 lbs. / in.	30 lbs. / in.
Low Temperature Bend	ASTM D2136	-70°F	-70°F
Abrasion Resistance (H18 / 1 kg)	ASTM D3389	15,000 cycles	18,000 cycles
Ozone Resistance (100 pphm @ 40°C)	ASTM D1149	Pass	Pass
Oxidative Induction Time	ASTM D3895	100 minutes	600 minutes
Hydraulic Conductivity	ASTM E96	1.0 x 10 ⁻¹¹ cm/sec	1.0 x 10 ⁻¹¹ cm/sec
Seam Shear Strength	ASTM D7747	100 lbs. / in.	110 lbs. / in.
Seam Peel Strength	ASTM D6636	20 lbs. / in.	50 lbs. / in.

Comments: This product is certified to AS4020 and NSF Std 61 for potable water containment.
This product meets the requirements of GRI GM-25 (Category 2 – Moderate) specification.

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45 MIL REINFORCED POLYETHYLENE GEOMEMBRANE LINER



COATED FABRIC SPECIFICATIONS

Total Thickness 45±4 mils

Coating Type

Polyethylene

Total Weight (nominal) 28 oz/yd²

Sealing Properties

☐ Dielectric ☐ Thermal

MATERIAL PROPERTIES

	TEST METHOD	MINIMUM	TYPICAL
Tensile Strength, Grab (warp/fill)	ASTM D751A	300 / 300 lbs.	400 / 355 lbs.
Tensile Elongation, Grab (warp/fill)	ASTM D751A	25 / 25%	35 / 35%
Tear Strength, Tongue (warp/fill)	ASTM D5884	80 / 80 lbs.	150 / 85 lbs.
Puncture, Rod	ASTM D4833	95 lbs.	105 lbs.
Ply Adhesion Strength	ASTM D751	20 lbs. / in.	30 lbs. / in.
Low Temperature Bend	ASTM D2136	-70°F	-70°F
Abrasion Resistance (H18 / 1 kg)	ASTM D3389	20,000 cycles	30,000 cycles
Ozone Resistance (100 pphm @ 40°C)	ASTM D1149	Pass	Pass
Oxidative Induction Time	ASTM D3895	100 minutes	600 minutes
Hydraulic Conductivity	ASTM E96	1.3 x 10 ⁻¹¹ cm/sec	1.3 x 10 ⁻¹¹ cm/sec
Seam Shear Strength	ASTM D7747	120 lbs. / in.	130 lbs. / in.
Seam Peel Strength	ASTM D6636	20 lbs. / in.	85 lbs. / in.

Comments: This product is certified to AS4020 and NSF Std 61 for potable water containment.
This product meets the requirements of GRI GM-25 (Category 1 – Severe) specification.

REVISION DATE: 16 Aug 2021 | EXPIRY DATE: 16 Aug 2026

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