



# ERTHA RPE Series

REINFORCED POLYETHYLENE GEOMEMBRANE LINER  
PRODUCT DATA SHEETS

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

# RPE 30

## 30 Mil Reinforced Polyethylene Geomembrane Liner



### COATED FABRIC SPECIFICATIONS

<b>Total Thickness</b>	30±2 mils	<b>Coating Type</b>	Polyethylene
<b>Total Weight (nominal)</b>	18 oz/yd <sup>2</sup>	<b>Sealing Properties</b>	<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 <sup>-12</sup> cm/sec	1.0 x 10 <sup>-12</sup> 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.

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

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# RPE 36

## 36 Mil Reinforced Polyethylene Geomembrane Liner



### COATED FABRIC SPECIFICATIONS

<b>Total Thickness</b>	36±3 mils	<b>Coating Type</b>	Polyethylene
<b>Total Weight (nominal)</b>	22 oz/yd <sup>2</sup>	<b>Sealing Properties</b>	<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 / 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 <sup>-11</sup> cm/sec	1.0 x 10 <sup>-11</sup> 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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# RPE 45

## 45 Mil Reinforced Polyethylene Geomembrane Liner



### COATED FABRIC SPECIFICATIONS

<b>Total Thickness</b>	45±4 mils	<b>Coating Type</b>	Polyethylene
<b>Total Weight (nominal)</b>	28 oz/yd <sup>2</sup>	<b>Sealing Properties</b>	<input type="checkbox"/> Dielectric <input checked="" type="checkbox"/> 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 <sup>-11</sup> cm/sec	1.3 x 10 <sup>-11</sup> 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.

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