

Product Description

Rufco® E-Series E30BS is a multi-layer, metallocene and linear low density polyethylene geomembrane with an anti-skid surface on both sides. Fine N110 carbon black and high performance stabilizers provide long-term protection from thermal oxidation and ultraviolet degradation. A combination of premium linear polyethylenes provide exceptional toughness, multi-axial elongation and impact resistance.

Product Use

Rufco® E30BS is used in lining and cover applications requiring good outdoor weatherability, toughness and puncture resistance. A lightly textured surface provides enhanced grip for ease of installation and worker safety without the *VELCRO® type adhesion that can make deployment over non-wovens difficult. The product's ability to conform to uneven surfaces and resist puncture through multi-axial elongation allows it to be used in a wide variety of applications.

Size & Packaging

Rufco® E30BS is available in various increments up to 30,000 square foot panels. All panels are accordion folded and tightly rolled on a heavy-duty core for ease of handling and time saving installation.



Pond Liner

Product

Part

RUF^{CO} E30BS

APPLICATIONS

- | | |
|----------------------|---------------------------|
| Containment Liners | Remediation Liners |
| Canal Linings | Brine Ponds |
| Oilfield Pit Liners | Leachate Collection Ponds |
| Decorative Ponds | Interim Landfill Covers |
| Fish Hatchery Liners | Outdoor Covers |
| Farm Ponds | |



*VELCRO® is a registered trademark of Velcro Industries B.V.

PROPERTIES	TEST METHOD	RUFECO E30BS			
		Typical Avg	Minimum Avg	Metric Avg	Min Metric Avg
APPEARANCE		Black	Black	Black	Black
THICKNESS, NOMINAL	ASTM D5199	34 mil	30 mil	0.84 mm	0.76 mm
WEIGHT		150 lbs/MSF	130 lbs/MSF	732 g/m ²	635 g/m ²
*TENSILE STRENGTH LBF/IN. (N/CM)	ASTM D6693	140 lbf	120 lbf	245 N	210 N
*ELONGATION AT BREAK	ASTM D6693	800%	750%	800%	750%
*TEAR RESISTANCE	ASTM D1004	18 lbf	16 lbf	80 N	71 N
PUNCTURE RESISTANCE	ASTM D4833	65 lbf	55 lbf	289 N	245 N
MULTI-AXIAL TENSION	ASTM D5617	130%	100%	130%	100%
IMPACT RESISTANCE	ASTM D1709	3600 g	2600 g	3600 g	2600 g
CARBON BLACK %	ASTM D1603 or ASTM D4218	2.5%	2.0%	2.5%	2.0%
MAXIMUM USE TEMPERATURE		180°F	180°F	82°C	82°C
MINIMUM USE TEMPERATURE		-70°F	-70°F	-57°C	-57°C
*FACTORY SEAM REQUIREMENTS					
BONDED SEAM STRENGTH lbf/in width (N/cm width)	**ASTM D4545 Mod.***	75 lbf	65 lbf	131 N	114 N
SEAM PEEL ADHESION lbf/in width (N/cm width)	**ASTM D4545	50 lbf	45 lbf	88 N	79 N

*Tests are an average of MD and TD directions.

**Factory Seam Requirements are for internal process testing only and are not intended as minimum requirements for field test data.

***Raven Industries performs seam testing at 12" per minute.



RUFECO[®] E30BS is a multi-layer membrane consisting of metallocene and premium linear low density polyethylene. Fine carbon black and thermal stabilizers provide long-term protection from thermal oxidation and ultraviolet degradation. An enhanced grip surface is added to both sides providing for ease of installation and job site safety. Please note that RUFECO[®] E30BS is not a textured geomembrane to be used for slope stabilization.

Note: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. Chemical resistance as well as other performance criteria is not implied or given and actual testing must be performed for applicability in specific applications and/or conditions. 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.