

Welcome to the Engineered Films Division of Raven Industries

Over the past 55 years, Raven Industries has established a well-known reputation for manufacturing and supplying high performance flexible films and sheeting to major markets throughout the United States and abroad. Our modern 300,000 square foot facility contains state-of-the-art equipment including blown and cast film and sheeting, lamination and conversion capabilities in addition to a large accredited laboratory and development facility.

You can draw on our years of experience gained from producing millions of pounds of polyolefins each year. Extensive engineering and R&D efforts are focused on custom solutions to meet your requirements through design and development within our new Technical Solutions Center. Our manufacturing ability is what sets us apart from the competition by offering some of the most diversified capabilities in the industry as well as our high standards for one-on-one customer service. We believe by thoroughly listening to our customers we can develop a solution that does precisely what they require. Our products are produced in a quality controlled environment under an ISO 9001:2008 certified management system to assure we achieve complete customer satisfaction and continuous improvement in all phases of our business.

We have a broad range of proven products from ultra-thin precise films to heavy fiber reinforced film and sheeting. Whether you need high quality packaging film, barrier film and sheeting, high-strength construction films or just a highly puncture-resistant geomembrane liner, we can engineer a product for your toughest demands. Our experience in designing quality film and sheeting has enabled us to offer a variety of products; each formulated to meet our customer's individual film requirements in addition to our standard product line.

Please review the following outline of our manufacturing capabilities and feel free to contact us with any questions or custom quote needs.

Blown Film Capabilities:

- Mono-Layer up to 7-Layer Blown Films
- Single Wound Sheeting up to 130" Wide
- Multi-Layer Film from 0.25 mil up to 40 mil Thick
- Capable of Processing a Wide Range of Resins
- Small Consumer Rolls
- Large Mill Rolls up to 50" Diameter
- Corona Treating & Printing
- Seamless Gusseted Widths up to 40' Wide

Lamination/Coating Capabilities:

- Lamination and Coating Up to 108" Wide
- 3 mil to 45 mil Fiber Reinforced Film & Sheeting
- Film to Fabric Configurations
- Wide Range of Reinforcement Options
- Extrusion Lamination
- Textured Surfaces

Converting Capabilities:

- Extrusion, Hot Air & Hot Wedge Welding
- Slitting and Re-Rolling
- 2-Color Print up to 120" Wide Web (100" Wide Print)
- Corona Treating
- Continuous Micro Perforation
- Factory Welded Panels up to 6,000 lbs

Raw Materials Processed:

- Low Density Polyethylene
- Lineal Low Density Polyethylene
- Medium Density Polyethylene
- High Density Polyethylene
- Polypropylene
- Metallocene
- Ionomer
- Nylon
- EVOH
- EVA
- TPO
- TPU
- Wide Range of Additives
- Stock or Special Order Colorants

PRODUCT DESCRIPTION	PART NUMBER	COLOR	NOM. MIL THICKNESS	COMMON APPLICATIONS	ADVANTAGES (BENEFITS)	ROLL WIDTH RANGE	PRODUCT TYPE	BASIC ADDITIVES	APPROX. EXPOSED LONGEVITY
ABSOLUTE BARRIER EB25	EB25BS	B	25	2,7,21,23,26	1,2,3,5,6,8,12	6	9	1	12 yr.
CANVEX CB12WB	CB12WB	W/B	12	1,2,4,5,6,8,11,12,14,15	1,2,4,5,7,8	4,5	5	1,3,5	2 yr.
CONKURE X80W	X80W	W	17	27	1,2,4,6,7	6	12	1,5	**3 mo.
DURA-SKRIM 2	R5CC	C	6	9,10,13,20,24	1,2,5,6,7,8	4	4	1	4 mo.
DURA-SKRIM 2FR	R5CCF	N	6	9,10,13,20,22,24	1,2,5,6,7,8,9	4	4	2	3 mo.
DURA-SKRIM 6WW	R6WWK	W/W	6	1,2,8,9,10,13,15,22,24	1,2,4,5,6,7,8	5	4	1,5	1 yr.
DURA-SKRIM 6WB	R6WB	W/B	6	1,2,4,8,9,10,12,13,15,20,22,24	1,2,4,5,6,7,8	5	4	1,3,5	1 yr.
DURA-SKRIM 6BB	R6BB	B/B	6	1,2,4,6,8,15,21	1,2,4,5,6,7,8	5	4	3	1 yr.
DURA-SKRIM J6WB	J6WBA	W/B	6	1,2,4,8,9,10,12,13,15,16,20,22,24	1,2,4,5,6,7,8	5	4	1,3,5	1 yr.
DURA-SKRIM J6WHD	J6WHA	W/W	6	1,2,8,9,10,13,15,22,24	1,2,4,5,6,7,8	5	4	1,5	1 yr.
DURA-SKRIM 8WB	R8WBK	W/B	8	1,2,4,5,6,8,11,12,13,14,21,22	1,2,4,5,6,7,8	5	4	1,3,5	1 yr.
DURA-SKRIM 8BB	R8BBR	B/B	8	1,2,4,6,8,11,12,13,15,21	1,2,4,5,6,7,8	5	4	3	1 yr.
DURA-SKRIM 8BV	R8BV	B/B	8	1,2,4,6,8,11,12,13,15	1,2,4,5,6,7,8	5	4	1,3	5 yr.
DURA-SKRIM 10FR	R10CCF	N	10	8,9,20,21,22,24	1,2,5,6,7,8,9	3	4	2	6 mo.
DURA-SKRIM 10HUV	R10CCU	C	10	2,4,8,9,10,11,13,20,22,24	1,2,5,6,7,8	5	4	1	1 yr.
DURA-SKRIM 12WB	R12WBK	W/B	12	1,2,3,4,5,6,8,11,14,15,21	1,2,5,6,7,8	5	4	1,3,5	2 yr.
DURA-SKRIM 12BV	R12BV	B/B	12	1,2,3,4,5,6,8	1,2,5,6,7,8	5	4	3	5 yr.
DURA-SKRIM R20BDV	R20BDV	B/D	20	1,2,3,5,6,8,11,12,17,21	1,2,5,6,8	4,5	4	1	5 yr.
DURA-SKRIM R20WW	R20WWK	W/W	20	1,2,3,5,6,11,12,17,21	1,2,5,6,8	4,5	4	1,5	5 yr.
DURA-SKRIM K30	K30B	B/B	30	2,3,6,7,17,19,29,30	1,2,5,6,8	4,5	4	1,3	20 yr.
DURA-SKRIM K36	K36B	B/B	36	2,3,6,7,17,19,29,30	1,2,5,6,8	4,5	4	1,3	20 yr.
DURA-SKRIM K45	K45B	B/B	45	2,3,6,7,17,19,29,30	1,2,5,6,8	4,5	4	1,3	20 yr.
DURA-SKRIM KQ36	KQ36B	B/B	36	2,3,6,7,17,19,29,30	1,2,5,6,8,11	4,5	13	1,3	15 yr.
DURA-SKRIM KQ45	KQ45B	B/B	45	2,3,6,7,17,19,29,30	1,2,5,6,8,11	4,5	13	1,3	20 yr.
DURA-SKRIM K-Series BT1	K36BT1,K45BT1	B/B	36 & 45	2,3,4,6,7,17,19,29,30	1,2,5,6,8,13	4,5	14	1,3	20 yr.
DURA-SKRIM K-Series BT2	K40BT2,K45BT2	B/B	40 & 45	2,3,4,6,7,17,19,29,30	1,2,5,6,8,13	4,5	14	1,3	20 yr.
FEEDFRESH RB7WB	RB7WB	W/B	7	9,14,15	1,2,5,6,8	6	4,9	1,3,5	18 mo.
FEEDPRO A5WB	A5WB	W/B	5	14,15	1,2,3,6,7,8	4	8	1,3,5	18 mo.
FORTRESS	HC5W	W	3.5	25	2,4,7,10	6	11	1	6 mo.
FORTRESS PRO	HL6W	W	14	25	2,4,10	6	10	1	6 mo.
RUFECO 300 WHITE	3W/SS3W	W	3	12,13,21,22,23	1,4,5,6,7	2	3	1,5	9 mo.
RUFECO 610B	610B	B	6	1,3,4,8,11,15	1,2,3,6,8	4,5	1	3	18 mo.
RUFECO 1010B	1010B	B	10	1,2,3,4,8,11,15	1,2,3,6,8	4,5	1	3	2 yr.
RUFECO 2010B	2010B	B	20	1,2,3,4,6,11	1,2,3,6,8	4,5	1	3	5 yr.
RUFECO 3010B	3010B	B	30	1,2,3,4,19	1,2,3,6,8	4,5	1	3	5 yr.
RUFECO 4010B	4010B	B	40	1,2,3,4,19	1,2,3,6,8	4,5	1	3	5 yr.
RUFECO 2000B	2000B	B	20	1,2,3,4,6,17,21	1,2,3,5,6,8	4,5	6	1,3	20 yr.
RUFECO 3000B	3000B	B	30	1,2,3,6,17,21	1,2,3,5,6,8	4,5	6	1,3	20 yr.
RUFECO 4000B	4000B	B	40	2,3,6,7,17,21	1,2,3,5,6,8	4,5	6	1,3	20 yr.
RUFECO E15DBS	E15DBS	D/B	15	1,2,3,4,6	1,2,3,5,6,8	4,5	8	1,3,4	2 yr.
RUFECO E30BS	E30BS	B	30	1,2,3,6	1,2,3,5,6,8	4,5	8	1,3,4	15 yr.
RUFECO PP40	PP40	B	40	2,3,6,7,17	1,2,3,5,6,8,11	4,5	2	1,3	20 yr.
VAPORBLOCK 6, 10 & 15	VB6,VB10,VB15	BU	6, 10 & 15	21,23	1,2,3,5,6,8	6	7	1	*N/A
VAPORBLOCK PLUS 20	VBP20	W/G	20	21,23,26	1,2,3,5,6,8,12	6	9	1,5	*N/A

Color Key: C=Clear B=Black W=White N=Natural G=Gold BU=Blue D=Gray

COMMON APPLICATIONS

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| 1. Oil Field Pit Liners | 8. Outdoor Covers | 15. Hay/Silage Covers | 22. Ceiling & Wall Vapor Retarder |
| 2. Remediation Liners & Covers | 9. Fumigation Covers | 16. Poultry House Ceilings | 23. Radon Retarder |
| 3. Pond Liners | 10. Lead & Asbestos Abatement | 17. Waste Disposal Liners | 24. Divider Curtains |
| 4. Erosion Control Covers | 11. Stock Pile Covers | 18. Hog Confinement Ceilings | 25. House Wrap |
| 5. Daily Landfill Covers | 12. Rail Car Covers/Liners | 19. Floating Covers | 26. Gas Barrier - Brownfields |
| 6. Interim Landfill Covers | 13. Product Wrapping | 20. Enclosure Film | 27. Concrete Curing Blanket |
| 7. Landfill Caps | 14. Grain Covers | 21. Under-slab Vapor Retarder | 29. Heap Leach Liners |
| | | | 30. Mine Tailings Ponds |

ADVANTAGES (BENEFITS):

- High Puncture Resistance
- High Tear Resistance
- High Elongation
- Low Elongation
- Low Moisture Permeability
- Pin Hole Free
- Economical
- Good Outdoor Longevity
- Fire Retardant
- Breathable
- Dimensional Stability
- Low Gas Permeability
- Increased Surface Friction

PRODUCT TYPE:

- Extruded 1-Layer MDPE Blend
- Extruded Flexible Polypropylene
- Cross Laminated (HDPE/LDPE/HDPE)
- Scrim Reinforced LLDPE
- Woven HDPE Ribbons and Coated with LDPE
- Extruded 1-Layer LLDPE
- Extruded 1-Layer Polyolefin
- Co-Extruded 3-Layer Polyolefin
- Co-Extruded 7-Layer with Barrier
- Microporous Reinforced Non-woven
- Woven Polyolefin Microporous
- Coated Polyolefin Fabric
- Scrim Reinforced Flexible PP Laminated
- Textured Scrim Reinforced LLDPE

ROLL WIDTH RANGE:

- Up to 20'
- Up to 32'
- Up to 40'
- Up to 150'
- Consult Factory for Widths over 150'
- Consult Factory for sizes

BASIC ADDITIVES:

- Ultraviolet Inhibitors/ Thermal Stabilizer
- Fire Retardant
- Carbon Black
- Anti-Skid
- TiO2 (titanium dioxide)

LDPE = Low Density Polyethylene
MDPE = Medium Density Polyethylene
VLDPE = Very Low Density Polyethylene
LLDPE = Linear Low Density Polyethylene
HDPE = High Density Polyethylene
PP = Polypropylene

Roll Lengths are typically 100'. Many other roll lengths are available. Maximum Roll Weight is 6,000 pounds.

* This product contains UV inhibitors, however, it is intended for non-exposed applications. (Underslab Vapor or Gas Barrier)

** UV Protection in coated side only.

Note: To the best of our knowledge, unless otherwise stated, the information listed on this sheet is best estimate and is intended as guides only, not as specification limits. Chemical resistance, moisture and/or odor transmission, as well as other performance criteria are 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. LONGEVITY varies with actual location and weather conditions, which include sun or shade, extreme heat or cold, wind, altitude, installation and many other variables. Because of these variables, we cannot determine exact longevity.

Please visit our website to learn more at www.RavenEFD.com