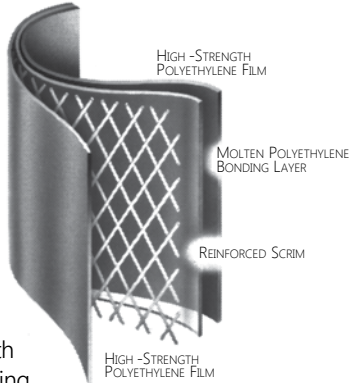


## PRODUCT DESCRIPTION

The GrainMax™ Series includes economical, reinforced films designed for agricultural applications requiring puncture resistance and high tear strengths. A heavy-duty scrim reinforcement, laminated between two layers of high strength polyethylene film, results in a material that resists punctures and immediately stops tears. GrainMax™ Series Storage Covers are produced with our patented DURA♦SKRIM® string reinforced material.



## PRODUCT USE

GrainMax™ is a durable lightweight cover designed for short term cover applications with longevity expectations up to 12 months.

GrainMax™ Pro is our most popular medium-weight grain cover and an excellent choice for mid-term applications.

GrainMax™ Ultra is our heaviest scrim reinforced grain cover designed with exceptional tear and puncture strengths to withstand more demanding conditions for up to 2 years of service.

All GrainMax™ Series covers are UV and thermally stabilized and contain a white outer surface to minimize heat buildup and condensation. GrainMax™ Series covers are available in a wide range of shapes and sizes. User friendly options include our easy to install RainFlap™ joining system, a reinforced YokeLift™ depending upon the application and a Fortress® Internal Strap System for added security.

## SIZE & PACKAGING

The GrainMax™ Series is available in a variety of widths and can be custom built in any size or length. Panel sizes up to 100,000 square feet are available. All panels are accordion folded and tightly rolled on a heavy-duty core for ease of handling and time-saving installation.



Grain Covers

## PRODUCT

## PART #

GrainMax™ .....	GMWBK
GrainMax™ Pro .....	GMPWBK
GrainMax™ Ultra.....	GMUWBK

## APPLICATIONS

Grain Covers	Silage Covers
Construction Covers	Temporary Walls
Temporary Erosion Control	Fumigation Covers
Remediation Covers	Hay Covers

# GRAINMAX™ GM, GMP, GMU

FOUR-LAYER REINFORCED EXTRUSION LAMINATE

PROPERTIES	TEST METHOD	GRAINMAX™		GRAINMAX™ PRO		GRAINMAX™ ULTRA	
		IMPERIAL	METRIC	IMPERIAL	METRIC	IMPERIAL	METRIC
APPEARANCE		White/Black		White/Black		White/Black	
WEIGHT		27 lbs/MSF 3.9 oz/yd <sup>2</sup>	132 g/m <sup>2</sup>	34 lbs/MSF 4.9 oz/yd <sup>2</sup>	166 g/m <sup>2</sup>	45 lbs/MSF 6.5 oz/yd <sup>2</sup>	220 g/m <sup>2</sup>
CONSTRUCTION		Extrusion laminated with scrim reinforcement					
<sup>2</sup> 1" TENSILE STRENGTH	ASTM D7003	60 lbf/in	105 N/cm	62 lbf/in	108 N/cm	72 lbf/in	126 N/cm
<sup>2</sup> ELONGATION AT FILM BREAK	ASTM D7003	500 %	500 %	500 %	500 %	500 %	500 %
<sup>2</sup> ELONGATION AT SCRIM BREAK	ASTM D7003	15 %	15 %	15 %	15 %	15 %	15 %
<sup>2</sup> GRAB TENSILE	ASTM D7004	75 lbf	333 N	84 lbf	374 N	90 lbf	400 N
<sup>3</sup> TONGUE TEAR	ASTM D5884	27 lbf	120 N	39 lbf	173 N	41 lbf	182 N
CBR PUNCTURE RESISTANCE	ASTM D6241	188 lbf	836 N	208 lbf	925 N	240 lbf	1068 N
MULLEN BURST	ASTM D751	50 psi	345 kPa	80 psi	552 kPa	94 psi	648 kPa
MAXIMUM STATIC USE TEMP		180° F	82° C	180° F	82° C	180° F	82° C
MINIMUM STATIC USE TEMP		-70° F	-57° C	-70° F	-57° C	-70° F	-57° C
WVTR	ASTM E96 Procedure B	0.018 grains/(ft <sup>2</sup> -hr)	0.293 g/(m <sup>2</sup> -day)	0.016 grains/(ft <sup>2</sup> -hr)	0.268 g/(m <sup>2</sup> -day)	0.013 grains/(ft <sup>2</sup> -hr)	0.221 g/(m <sup>2</sup> -day)
PERM RATING	ASTM E96 Procedure B	0.042 Perms grains/(ft <sup>2</sup> -hr-in Hg)	0.028 Perms g/(24hr-m <sup>2</sup> -mm Hg)	0.037 Perms grains/(ft <sup>2</sup> -hr-in Hg)	0.024 Perms g/(24hr-m <sup>2</sup> -mm Hg)	0.031 Perms grains/(ft <sup>2</sup> -hr-in Hg)	0.020 Perms g/(24hr-m <sup>2</sup> -mm Hg)

<sup>2</sup> Tests are an average of primary reinforcement directions.

<sup>3</sup> Tests are an average of machine and transverse directions.



The GrainMax™ Series includes economical, reinforced films designed for agricultural applications requiring puncture resistance and high tear strengths. GrainMax™ is a durable lightweight cover designed for short term cover applications with longevity expectations of up to 12 months. GrainMax™ Pro is our most popular cover and an excellent choice for a mid-term applications. GrainMax™ Ultra is our heaviest scrim reinforced grain cover designed with exceptional tear and puncture strengths to withstand more demanding conditions for up to 2 years of service.

All GrainMax™ Series covers are UV and thermally stabilized and contain a white outer surface to minimize heat buildup and condensation. GrainMax™ Series covers are available in a wide range of shapes and sizes. User friendly options include our easy to install RainFlap™ joining system, a reinforced Yokelift™ depending upon the application and a Fortress® Internal Strap Systems for added security.



Scan QR Code to download current technical data sheets via the Raven website.

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, odor transmission, longevity 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. Limited Warranty available at [www.ravenefd.com](http://www.ravenefd.com)

**RAVEN ENGINEERED FILMS**  
P.O. Box 5107 Sioux Falls, SD 57117-5107  
Ph: +1 (605) 335-0174 • TF: +1 (800) 635-3456

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[efdsales@ravenind.com](mailto:efdsales@ravenind.com)  
[www.ravenefd.com](http://www.ravenefd.com)



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