

PRODUCT DESCRIPTION

DURA♦SKRIM® K36BT, K40BT and K45BT are unique textured scrim reinforced cast geomembranes manufactured using high strength virgin grade polyethylene resins. DURA♦SKRIM® textured K-Series is reinforced with a dense scrim reinforcement to maximize tear and puncture resistance. Both the single and double side textured K-Series are manufactured utilizing a cast extrusion process to achieve a consistent friction surface with uniform asperity heights. Raven's exclusive GeoGrip™ Technology consists of durable random spikes and bidirectional bars for uniform stabilization and support.

DURA♦SKRIM® textured K-Series combines both the exceptional performance characteristics of our smooth K-Series with the integrated GeoGrip™ surface texture providing a highly versatile geomembrane for use in many applications.

PRODUCT USE

DURA♦SKRIM® textured K-Series high strength reinforcement along with the GeoGrip™ friction surface provides design engineers with new solutions for the most challenging projects. The GeoGrip™ texture provides increased friction between various soil and geosynthetic layers allowing for steeper slope designs. This is ideal for applications requiring exceptional slope stability such as landfill caps, mining leach pads and containment ponds.

Design professionals commonly perform direct shear tests with site soils and recommend geosynthetic materials to assure the best possible results. The DURA♦SKRIM®, K36BT, K40BT & K45BT are certified under the NSF/ANSI Standard 61, Drinking Water System Components - Health Effects.



SIZE & PACKAGING

DURA♦SKRIM® K36BT, K40BT and K45BT are available in a variety of widths and lengths to meet the project requirements. Large diameter mill rolls are available to assure an efficient seaming process. Factory welded panels are accordion folded and tightly rolled on a heavy-duty core for ease of handling and time saving installation.



Containment Pond Liner

PRODUCT

PART

DURA♦SKRIM	K36BT1
DURA♦SKRIM	K40BT2
DURA♦SKRIM	K45BT1
DURA♦SKRIM	K45BT2

APPLICATIONS

Waste Lagoon Liners	Heap Leach Liners
Landfill Caps	Tunnel Liners
Canal Liners	Earthen Liners
Disposal Pit Liners	Interim Landfill Covers
Water Containment Ponds	Mining Tailing Ponds

DURA·SKRIM® K36BT, K40BT, K45BT

TEXTURED SCRIM REINFORCED POLYETHYLENE - NSF/ANSI STANDARD 61 CERTIFIED

PROPERTIES	TEST METHOD	K36BT1 (1-SIDE)		K40BT2 (2-SIDE)		K45BT1 (1-SIDE)		K45BT2 (2-SIDE)	
		Minimum Roll Averages	Typical Roll Averages	Minimum Roll Averages	Typical Roll Averages	Minimum Roll Averages	Typical Roll Averages	Minimum Roll Averages	Typical Roll Averages
APPEARANCE		Black	Black	Black	Black	Black	Black	Black	Black
THICKNESS	ASTM D5199	32 mil	36 mil	36 mil	40 mil	40 mil	45 mil	40 mil	45 mil
ASPERITY HEIGHT (PER SIDE)	ASTM D7466	24 mil	27 mil	24 mil	27 mil	24 mil	27 mil	24 mil	27 mil
WEIGHT LBS/MSF, (OZ/YD ²)	ASTM D751	163 (23.5)	165 (23.8)	193 (27.8)	198 (28.5)	202 (29.1)	206 (29.7)	212 (30.5)	215 (31.0)
CONSTRUCTION		Textured Scrim Reinforced Polyethylene							
*PLY ADHESION (LBF/IN)	ASTM D6636	31 or FTB	39 or FTB	31 or FTB	39 or FTB	32 or FTB	40 or FTB	32 or FTB	42 or FTB
**TENSILE STRENGTH (LBF/IN)	ASTM D7003	167 MD 172 TD	186 MD 192 TD	167 MD 163 TD	185 MD 181 TD	189 MD 182 TD	210 MD 203 TD	172 MD 168 TD	191 MD 187 TD
**TENSILE ELONGATION AT BREAK % (FILM BREAK)	ASTM D7003	327 MD 203 TD	364 MD 225 TD	505 MD 491 TD	561 MD 546 TD	599 MD 411 TD	665 MD 457 TD	523 MD 509 TD	581 MD 566 TD
**TENSILE ELONGATION AT BREAK % (SCRIM BREAK)	ASTM D7003	30 MD 30 TD	31 MD 33 TD	30 MD 30 TD	33 MD 33 TD	30 MD 30 TD	33 MD 32 TD	30 MD 30 TD	34 MD 35 TD
***TONGUE TEAR STRENGTH (LBF)	ASTM D5884	131 MD 122 TD	146 MD 136 TD	129 MD 124 TD	144 MD 138 TD	144 MD 122 TD	160 MD 129 TD	172 MD 156 TD	192 MD 174 TD
**GRAB TENSILE (LBF) (SCRIM BREAK)	ASTM D7004	306 MD 298 TD	340 MD 331 TD	307 MD 299 TD	342 MD 333 TD	304 MD 298 TD	338 MD 320 TD	298 MD 298 TD	332 MD 332 TD
**GRAB TENSILE ELONGATION AT BREAK % (SCRIM BREAK)	ASTM D7004	25 MD 25 TD	33 MD 34 TD	25 MD 25 TD	33 MD 32 TD	25 MD 25 TD	33 MD 30 TD	25 MD 25 TD	38 MD 32 TD
HIGH PRESSURE OIT (HPOIT)	ASTM D5885	1000 min	2500 min	1000 min	2500 min	1000 min	2500 min	1000 min	2500 min
PUNCTURE RESISTANCE (LBF)	ASTM D4833	117	130	118	132	126	141	123	137
MAXIMUM STATIC USE TEMPERATURE		180° F		180° F		180° F		180° F	
MINIMUM STATIC USE TEMPERATURE		-70° F		-70° F		-70° F		-70° F	

*Raven modified QC procedure.

**Tests are an average of primary reinforcement directions.

***Tests are an average of machine and transverse directions.

Hydraulic conductivity values are derived from permeability data. K36BT = 1.83×10^{-10} cm/sec, K40BT = 1.65×10^{-10} cm/sec, and K45BT = 1.47×10^{-10} cm/sec.



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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

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