

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 - METRIC

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
VWV		Black							
THICKNESS (MM)		0.81	0.91	0.91	1.02	1.02	1.14	1.02	1.14
ASPERITY HEIGHT (PER SIDE) (MM)	ASTM D 7466	0.61	0.69	0.61	0.69	0.61	0.69	0.61	0.69
WEIGHT (g/m ²)		796	806	942	967	986	1006	1035	1050
CONSTRUCTION		Textured Scrim Reinforced Polyethylene							
*PLY ADHESION (N/CM)	ASTM D 6636	54 or FTB	68 or FTB	54 or FTB	68 or FTB	56 or FTB	70 or FTB	56 or FTB	73 or FTB
**TENSILE STRENGTH (N/CM)	ASTM D 7003	292 MD 301 TD	326 MD 336 TD	292 MD 285 TD	324 MD 317 TD	331 MD 318 TD	368 MD 355 TD	301 MD 294 TD	334 MD 327 TD
**TENSILE ELONGATION AT BREAK % (FILM BREAK)	ASTM D 7003	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 D 7003	30 MD 30 TD	31 MD 33 TD	30 MD 30 TD	33 MD 33 TD	30 MD 30 TD	32 MD 32 TD	30 MD 30 TD	34 MD 35 TD
***TONGUE TEAR STRENGTH (N)	ASTM D 5884	583 MD 543 TD	649 MD 605 TD	574 MD 552 TD	641 MD 614 TD	641 MD 543 TD	712 MD 574 TD	765 MD 694 TD	854 MD 774 TD
**GRAB TENSILE (N) (SCRIM BREAK)	ASTM D 7004	1361 MD 1326 TD	1512 MD 1472 TD	1366 MD 1330 TD	1521 MD 1481 TD	1352 MD 1326 TD	1503 MD 1423 TD	1326 MD 1326 TD	1477 MD 1477 TD
**GRAB TENSILE ELONGATION AT BREAK % (SCRIM BREAK)	ASTM D 7004	25	33	25	33	25	31	25	35
HIGH PRESSURE OIT (HPOIT)	ASTM D 5885	1000 min	2500 min	1000 min	2500 min	1000 min	2500 min	1000 min	2500 min
PUNCTURE RESISTANCE (N)	ASTM D 4833	520	578	525	587	560	627	547	609
MAXIMUM STATIC USE TEMPERATURE		82° C		82° C		82° C		82° C	
MINIMUM STATIC USE TEMPERATURE		- 57° C		- 57° C		- 57° C		- 57° C	

*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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DURA•SKRIM®



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

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