

DURA♦SKRIM® K45BT1

1-SIDE TEXTURED SCRIM REINFORCED POLYETHYLENE - MEETS GRI-GM25

RAVEN

PRODUCT DESCRIPTION

DURA♦SKRIM® K45BT1 is a one-side textured scrim reinforced geomembrane manufactured using high strength virgin-grade polyethylene resins. DURA♦SKRIM® textured KT-Series is reinforced with a dense cross-directional scrim reinforcement to maximize tear and puncture resistance. The single-side textured KT-Series is 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 KT-Series combines both the exceptional performance characteristics of our smooth K-Series with the integrated GeoGrip™ surface texture to provide a highly versatile geomembrane for many applications.

PRODUCT USE

The high-strength reinforcement in DURA♦SKRIM® textured KT-Series along with the GeoGrip™ friction surface provides design engineers 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.

DURA♦SKRIM® K45BT1 meets or exceeds the requirements of the Geosynthetics Research Institute; GRI-GM25 Standard Specification, and is certified under the NSF/ANSI Standard 61, Drinking Water System Components – Health Effects.

SIZE & PACKAGING

DURA♦SKRIM® KT-Series is available in a variety of widths and lengths to meet the project requirements. Wide-width mill rolls are available to assure an efficient on-site seaming process. Raven specializes in high-quality large prefabricated panels up to 8,000 lbs. These panels are welded and produced in a controlled environment then accordion folded and tightly rolled on a heavy-duty core for ease of handling and time saving installation.

DURA♦SKRIM®



Containment Pond Liner

PRODUCT

PART

DURA♦SKRIM..... K45BT1

APPLICATIONS

- | | |
|-------------------------|-------------------------|
| Waste Lagoon Liners | Reservoir Liners |
| Landfill Caps | Tunnel Liners |
| Canal Liners | Earthen Liners |
| Disposal Pit Liners | Interim Landfill Covers |
| Water Containment Ponds | Mining Tailing Ponds |

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		DURA♦SKRIM K45BT1			
		IMPERIAL		METRIC	
PROPERTIES	TEST METHOD	MINIMUM	TYPICAL	MINIMUM	TYPICAL
APPEARANCE		Black		Black	
THICKNESS	ASTM D5994	40 mil Average	45 mil Nominal	1.02 mm Average	1.14 mm Nominal
ASPERITY HEIGHT	ASTM D7466	24 mil	27 mil	0.61 mm	0.69 mm
WEIGHT	ASTM D751	189 lbs/msf	206 lbs/msf	923 g/m ²	1006 g/m ²
GRAB TENSILE AT BREAK	ASTM D7004	250 lbs	330 lbs	1112 N	1468 N
TENSILE ELONGATION AT BREAK	ASTM D7004	25 %	31 %	25 %	31 %
TONGUE TEAR STRENGTH	ASTM D5884	95 lbs	125 lbs	423 N	556 N
PUNCTURE RESISTANCE	ASTM D4833	110 lbs	141 lbs	489 N	627 N
HIGH PRESSURE OIT (HPOIT)	ASTM D5885	1000 min	> 2200 min	1000 min	> 2200 min
HYDRAULIC CONDUCTIVITY		1.5 x 10 ⁻¹⁰ cm/sec			
MAXIMUM STATIC USE TEMPERATURE		180° F		82° C	
MINIMUM STATIC USE TEMPERATURE		-70° F		-57° C	
FACTORY SEAM REQUIREMENTS					
SEAM SHEAR STRENGTH	ASTM D7747	85 lbs/in width	120 lbs/in width	149 N/cm	210 N/cm
SEAM PEEL STRENGTH	ASTM D7747	50 lbs/in width	70 lbs/in width	88 N/cm	123 N/cm



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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

RAVEN ENGINEERED FILMS

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