

# DURA•SKRIM® KQ36B & KQ45B


Scrim Reinforced Polypropylene - NSF/ANSI Standard 61 Certified



## Product Description

DURA•SKRIM® KQ36B and KQ45B are flexible polypropylene reinforced geomembranes achieved by incorporating high levels of ethylene propylene rubber into polypropylene with a dense scrim reinforcement for excellent dimensional stability and puncture resistance. In addition the K-Series reinforcement provides unmatched tear and tensile strengths. DURA•SKRIM® KQ36B and KQ45B polypropylene membranes do not contain plasticizers that can leach out and hinder long-term flexibility and performance. DURA•SKRIM® KQ36B and KQ45B provide outstanding resistance to environmental stress cracking even in elevated temperatures and chemical environments.

## Product Use

DURA•SKRIM® KQ36B and KQ45B are used in a wide variety of applications that require a unique combination of mechanical toughness, excellent flexibility, and environmental resistance. DURA•SKRIM® KQ36B and KQ45B polypropylene geomembranes also offer a high-friction angle reducing concerns for side slope stability. The DURA•SKRIM®, KQ36B & KQ45B are certified under the NSF/ANSI Standard 61, Drinking Water System Components - Health Effects. 

## Size & Packaging

DURA•SKRIM® KQ36B and KQ45B 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 Liner

Product	Part #
DURA•SKRIM .....	KQ36B
DURA•SKRIM .....	KQ45B

## APPLICATIONS

- Waste Lagoon Liners
- Floating Covers
- Fish Hatchery Liners
- Modular Tank Liners
- Tunnel Liners
- Remediation Liners
- Earthen Liners
- Interim Landfill Covers
- Remediation Covers
- Landfill Caps
- Farm Pond Liners
- Canal Liners
- Disposal Pit Liner
- Water Containment Ponds
- Heap Leach Liner

# DURA♦SKRIM® KQ36B & KQ45B

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PROPERTIES	TEST METHOD	DURA♦SKRIM KQ36B		DURA♦SKRIM KQ45B	
		Minimum Roll Averages	Typical Roll Averages	Minimum Roll Averages	Typical Roll Averages
APPEARANCE		Black			
THICKNESS	ASTM D5199	32 mil	36 mil	40 mil	45 mil
WEIGHT LBS/MSF, (OZ/YD <sup>2</sup> )	ASTM D751	146 (21.0)	156 (22.5)	186 (26.8)	197 (28.4)
CONSTRUCTION		dense scrim reinforced polypropylene			
*PLY ADHESION - LBS/IN	ASTM D6636	20 or FTB	22 or FTB	25 or FTB	27 or FTB
TENSILE STRENGTH - LBS/IN	ASTM D7003	166 MD 155 TD	184 MD 172 TD	175 MD 145 TD	194 MD 161 TD
TENSILE ELONGATION AT BREAK % (FILM BREAK)	ASTM D7003	632 MD 460 TD	703 MD 511 TD	606 MD 654 TD	673 MD 727 TD
TENSILE ELONGATION AT BREAK % (SCRIM BREAK)	ASTM D7003	30 MD 30 TD	34 MD 32 TD	30 MD 30 TD	32 MD 33 TD
TONGUE TEAR STRENGTH - LBF	ASTM D5884	160 MD 171 TD	178 MD 190 TD	148 MD 158 TD	165 MD 176 TD
GRAB TENSILE - LBF (SCRIM BREAK)	ASTM D7004	242 MD 243 TD	269 MD 270 TD	271 MD 264 TD	301 MD 294 TD
GRAB TENSILE ELONGATION AT BREAK %	ASTM D7004	25 MD 25 TD	31 MD 33 TD	25 MD 25 TD	29 MD 34 TD
HIGH PRESSURE OIT (HPOIT)	ASTM D5885	450 min	900 min	450 min	900 min
PUNCTURE RESISTANCE - LBF	ASTM D4833	100	111	106	118
MAXIMUM USE TEMPERATURE		180° F		180° F	
MINIMUM USE TEMPERATURE		-70° F		-70° F	

\*Raven modified QC procedure

Hydraulic conductivity values are derived from permeability data. KQ36 =  $1.39 \times 10^{-9}$  cm/sec, and KQ45 =  $1.11 \times 10^{-9}$  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](http://www.RavenEFD.com)



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