

FRIENDLY ENVIRONMENT

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Specification Sheet for 100% Rubber Erosion EelTM

Product Description:

The Erosion Eel^{TM*} is a highly effective sediment-control product used at construction sites to prevent suspended soils from contaminating area streams and wetlands during storm events. It is sediment tube filled with an effective filter ballast material, consisting of 100% shredded, recycled tire rubber.

Applications:

The Erosion EelTM is used on any active construction site where soils have been disturbed. The Eel is used in lieu of silt fencing, rock check dams, wattles, hay bales, gravel bags, and other conventional BMP item. The Eel can be used for perimeter controls, check dams, and diversion berms.

Product Dimensions and Weights: The Erosion EelTM comes in four sizes:

- > 9.5-inch (24 cm) diameter, 2.5 ft (0.8 m) length
- > 9.5-inch (24 cm) diameter, 10 ft (3 m) length
- > 9.5-inch (24 cm) diameter, 4.5 ft (1.4 m) length
- > 20-inch (51 cm) diameter, 10 ft (3 m) length

The unit weight per ft for each manufactured diameter is:

- > 9.5-inch (24 cm) diameter = 14 lbs/ft (20.9 kg/m)
- \triangleright 20-inch (51 cm) diameter = 60 lbs/ft (89.5 kg/m)

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Interior Filter Material:

Shredded, recycled used tire rubber particles. Greater than 98% of metal is removed from shredded rubber filtrate material. The rubber is washed during manufacturing.

Interior Filter Material Particle Size Gradation:

½ inch to ¾ inch for 9.5-inch diameter Eel. 2-inch size for 20-inch Eel

Geotextile Bag Specifications:

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.67 (375)	0.84 (190)
Tensile Strength (at ultimate)	ASTM D 4595	kWm	47.3	39.4
		(lbs/ft)	(3240)	(2700)
Tensile Strength (at 2% strain)	ASTM D 4595	kN/m (lbs/ft)	7.9 (540)	7.9 (540)
Tensile Strength (at 5% strain)	ASTM D 4595	kN/m	19.8	22.8
- '		(lbs/ft)	(1356)	(1560)
Tensile Strength (at 10% strain)	ASTM D 4595	kN/m	35.0	35.0
		(lbs/ft)	(2400)	(2400)
Grab Tensile Elongation	ASTM D 4632	%	15	6
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.76 (170)	0.49 (110)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	5506 (800)	
Puncture Strength	ASTM D 4833	kN (lbs)	0.70 (160)	
Flow Rate	ASTM D 4491	l/min/m²	2037	
		(gal/min/ft²)	(50)	
Permeability	ASTM D 4491	cm/sec	0.050	
Permittivity	ASTM D 4491	SeC ⁻¹	0.52	
Apparent Opening Size (AOS)	ASTM D 4751	mm	0.600	
		(U.S. Sieve)	(30)	
LIV Pacietanes (et 500 hours)	ASTM D 4355	% strength	70	
UV Resistance (at 500 hours)	A3 1 W D 4333	retained		

Physical Properties	Test Method	Unit	Typical Value
Construction	ASTM D 3775	Threads/inch	35 x 8
Weave Type	Visual		2/2 Twill
Fiber Content		400	100% PP
Weight	ASTM D 5261	oz/yd²	7.8

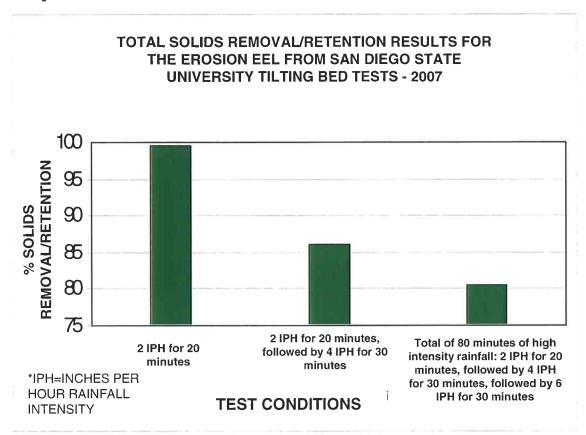
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Hydraulic Flow Under Slurry Conditions:

Under slurry flow conditions with a clay soil suspended solids concentration of 3000 mg/L, the Eel can pass a minimum of 10 gpm/ft length.

Empirical Test Results for Solids Removal



Installation Requirements:

Each Eel is designed with high-strength handles. One can move the Eels either manually (e.g., two individuals holding onto the handles at both ends of the Eel, or one person dragging the Eel by one of the end handles) or can be moved mechanically using any number of different types of construction equipment. **The Eel does not require any ground disturbance at all.** Staking is only required for applications when the Eel is used as a check dam (concentrated flow applications). Also, the Eels need to be staked on steep hillsides (>25%).

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Refer to the installation drawings provided by the distributor for more detailed installation requirements.

Storage Requirements:

It is recommended to keep the Eels stored either indoors or, if stored outside, keep the Eels covered to minimize UV exposure to prolong the geotextile life.

Expected Life:

Assuming there is no physical damage inflicted on the Eel from construction activities or vandalism, the service life of the Eel is estimated to be, on the average, approximately 2 years. This is based on the internal pore storage space within the Eel to trap particles under varied construction conditions. The overall maximum life is anticipated to be around 3 years.

Disclaimer/Warranty

Seller makes no warranty, expressed or implied, concerning the product furnished hereunder other than at the time of delivery it shall be of the quality and specification stated herein. Any implied warranty of fitness for a particular purpose is expressly excluded, and, to the extent that it is contrary to the foregoing sentence, any implied warranty of merchantability is expressly excluded. Any recommendations made by the Manufacturer/Seller concerning the use or application of said product are believed reliable and the Manufacturer /Seller makes no warranty of results to be obtained. If the product does not meet current Manufacturer-published specifications, and the customer gives notice to the Manufacturer/Seller before installing the product, then the Manufacturer/Seller will replace the product without charge or refund the purchase price.

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