

Filter Unit (Filled) Data						
		FU 2t	FU 4t	FU 8t		
		(Eco G)	(Eco G/S Type)	(S Type)		
Diameter		6.3 ft (1.9m)	7.8 ft (2.4m)	9.8 ft (3.0m)		
Height		1.3 ft (0.4m)	2 ft (0.6m)	2.3 ft (0.7m)		
Filling	Kind	Cobble, Riprap, Crushed stone				
	Size/Diameter	2-8 inches 50mm \sim 200mm		6 x 8 inches		
				$150{\sim}200$ mm		
Internal Volume		1.63 cubic yards	3.26 cubic yards	6.53 cubic yards		
		1.25 cubic meter	2.5 cubic meter	5.0 cubic meter		
Weight ¹		2.0MT (4,409 lbs)	4.0MT (8,818 lbs)	8.0MT (17,637		
		· · ·	•	lbs)		
Critical Velocity ² (single unit)		10.2 fps (3.1 m/s)	11.5 fps (3.5 m/s)	12.8 fps (3.9 m/s)		

Eco-G Recycled Polyester Mesh Data						
Property	Test Method	Filter Unit 2t	Filter Unit 4t			
MECHANICAL						
Tensile Strength - MD	ASTM D-6637 mod	1,630 lbs (7,251 N)	1,742 lbs (7,752 N)			
Tensile Strength – TD	ASTM D-6637 mod	400 lbs (1,782 N)	732 lbs (3,259 N)			
Elongation – MD	ASTM D-6637 mod	49.2%	48.1%			
Elongation – TD	ASTM D-6637 mod	73%	70.9%			
DURABILITY						
UV Resistance at 500 hrs - MD	ASTM D-4355	93%	89%			
UV Resistance at 500 hrs - TD	ASTM D-4355	82%	77%			
UV Resistance at 7,500 hrs	JIS L 0842 ³	64.4%	67.2%			
Salt Water Resistance ⁴	Accelerated Exposure Test ⁵	80% tensile strength at 50 years				
Chemical Resistance at 500 hrs		Tensile Strength Remaining				
Sodium Chloride (3%)		100.6%	100.5%			
Sodium Hydroxide (pH 11)		101.1%	93.0%			
Hydrochloric Acid (pH 3)		99.4%	98.9%			
Sodium Hydroxide (pH 12)		95.3%	92.5%			
Hydrochloric Acid (pH 2)	Accelerated	98.3%	98.9%			
	Exposure Test ⁶					
Chemical Resistance at 1000 hrs						
Sodium Chloride (3%)		100.0%	101.6%			
Sodium Hydroxide (pH 11)		100.6%	99.0%			
Hydrochloric Acid (pH 3)		99.6%	97.3%			
Sodium Hydroxide (pH 12)		91.5%	89.9%			
Hydrochloric Acid (pH 2)		96.7%	97.2%			

North America Contact: Marubeni America Corp. (distributor)

Mr. Yasutaka "Nishi" Nishimune

Tel: 212-450-0320; Email: nishimune-y@marubeni.com

¹ Weight data assumes filling material density of 2.65 and 61% filling rate.

 ² Manufacturer's calculations; confirmed by scale model tests.
³ JIS L 0842: measurement of tensile strength before and after constant carbon arc lamp exposure and periodic water spray exposure. 250 hours arc lamp exposure is equivalent to about 1-year exposure to natural light. ⁴ Tested material was nylon, the predecessor of Eco-Green Polyester material. Manufacturer expects at least equivalent

performance with Eco-Green Polyester. ⁵ Tensile strength of Filter Unit nylon material was tested before and after the equivalent of 50 years exposure to salt water.

⁶ Tensile strength measured before and after immersion in the listed chemical solutions.