



PATRIOT
GEOSYNTHETICS

8oz DEWATERING BAGS

Kale Construction Supply (KCS) hereby certifies the product marketed and sold under the Patriot 8oz Dewatering Bag label meets the following specifications as outlined in **NCDOT Standard Specifications Section 1639**. Patriot Dewatering Bags are sewn together with a J type seam using a double thread sewing machine using high strength thread. Our seams have a minimum tensile strength of 60 lbs/in . Patriot 8oz Dewatering Bags are made from an 8oz nonwoven which is a needle-punched nonwoven geotextile made of 100% polypropylene staple fibers, which are formed into a random network for dimensional stability. PATRIOT 8000N resists ultraviolet deterioration, rotting, biological degradation, naturally encountered basics and acids. Polypropylene is stable within a pH range of 2 to 13. PATRIOT 8000N conforms to the physical values listed below:

MECHANICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs/ft (N)	205 (912)	205 (912)
Grab Tensile Elongation	ASTM D4632	%	50	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	80 (356)	80 (356)
CBR Puncture Strength	ASTM D6241	lbs (N)	500 (2224)	

			MINIMUM ROLL VALUE
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	95 (3870)
Permittivity	ASTM D4491	sec ⁻¹	1.4

			MAXIMUM OPENING SIZE
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	80 (0.18)

			MINIMUM TEST VALUE
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	70

The values listed are a result of testing conducted in on-site laboratories. A letter certifying the minimum average roll value will be issued from the manufacturing plant by the quality control manager at request.

Ryan S. Nowlin, Vice President Kale Construction Supply

Ryan S. Nowlin

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