



**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 800N 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 <sup>2</sup> (l/min/m <sup>2</sup> )	95 (3870)
Permittivity	ASTM D4491	sec <sup>-1</sup>	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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