EARTH™ SAVER
GEOSYNTHETICS & EROSION CONTROL PRODUCTS

PROUDLY MADE IN USA

ES700N-US PRODUCT DATA SHEET

Our ES700N-US is a needle-punched nonwoven geotextile made of polypropylene staple fibers, which are formed into a random network for dimensional stability. Our ES700N-US resists ultraviolet deterioration, rotting, biological degradation, naturally encountered alkalis and acids. Polypropylene is stable within the pH range of 2 to 13. Our ES700N-US is Made in the USA, BABA compliant, NTPEP listed and meets requirements as per AASHTO Standards and/or D.O.T. Standards.

Properties[1]	Test Method	English MARV[2]		Metric MARV[2]	
MECHANICAL PROPERTIES					
Grab Tensile Strength	ASTM D4632	180 lbs		0.80 kN	
Grab Elongation	ASTM D4632	50%			
Trapezoidal Tear Strength	ASTM D4533	75 lbs		0.333 kN	
CBR Puncture Strength	ASTM D6241	450 lbs		2.003 kN	
HYDRAULIC PROPERTIES					
Permittivity[3]	ASTM D4491	1.3 sec^{-1}			
Water Flow[3]	ASTM D4491	100 gpm/ft^2		4074 l/min/m^2	
Apparent Opening Size (AOS)[3,4]	ASTM D4751	70 US Sieve		0.212 mm	
ENDURANCE PROPERTY					
UV Stability	ASTM D4355	70% at 500 hours			
PACKAGING DETAILS					
Roll Width	Measured	12.5 ft	15 ft	3.81 m	4.57 m
Roll Length	Measured	360 ft	300 ft	109.73 m	91.44 m
Roll Area	Measured	500 yd^2		418 m^2	
Roll Weight	Measured	225 lbs		102 kg	
AASHTO CLASSIFICATION					
M288 Survivability Class		2			
M288 Application[5]		SP, ST, D, E			

NOTE
1. The property values listed above are subject to change without notice
2. Minimum Average Roll Value (MARV) is calculated as the average minus two standard deviations. Statistically, it yields approximately 97.5% degree of confidence that any samples taken from quality assurance testing will meet or exceed the values described above. All values are MARV unless otherwise noted.
3. At time of manufacturing. Handling may change these properties.
4. Maximum Average Roll Value
5. S/F=Silt Fence, SP=Separation, ST=Stabilization, D=Drainage, E=Erosion Control

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