

Capillary Mat

Capillary Mat, designed for transmissivity of effluent draining from beneath and between the layers and sides of a Geotube® Dewatering System, is a needle-punched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Capillary Mat is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value
Weight	ASTM D5261	oz/yd ² (g/m ²)	16.0 (542)
Thickness	ASTM D5199	mils (mm)	175 (4.4)
Grab Tensile Strength	ASTM D4632	lbs (N)	425 (1891)
Grab Tensile Elongation	ASTM D4632	%	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	145 (645)
Mullen Burst Strength	ASTM D3786	psi (kPa)	800 (5511)
Puncture Strength	ASTM D4833	lbs (N)	240 (1068)
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	100 (0.15)
Permittivity	ASTM D4491	sec ⁻¹	0.7
Permeability	ASTM D4491	cm/sec	0.31
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	50 (2037)
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	80

Physical Properties	Unit	Typical Value
Transmissivity (ASTM D4716)	ft ² /min (m ² /sec)	1.25E-05 (8.1E-03)
Roll Dimensions (width x length)	ft (m)	15 x 300 (4.5 x 91)
Roll Area	yd ² (m ²)	500 (418)
Estimated Roll Weight	lb (kg)	530 (240)

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