

AGRUTEX

Polypropylene Geotextile

Civil Applications



Agrutex® geotextiles are a series of polypropylene, staple fiber, needle punched nonwoven geotextile. The fibers are needled together to form a stable network that retains dimensional stability relative to each other. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

Agrutex conforms to the property values listed below.¹ Agru America's Laboratories are accredited by the Geosynthetic Accreditation Institute's Laboratory Accreditation Program (GAI-LAP).

STYLE NAME			AT040	AT060	AT080	AT100	AT120	AT160
PROPERTY	TEST METHOD		TYPICAL MASS PER UNIT AREA					
Physical								
Mass/Unit Area, oz/sy (g/m ²)	ASTM D-5261		4 (136)	6 (203)	8 (271)	10 (339)	12 (407)	16 (544)
PROPERTY	TEST METHOD	FREQUENCY	MINIMUM AVERAGE ROLL VALUE(S)					
Mechanical								
Grab Tensile, lbs (N)	ASTM D-4632	100,000 SF	100 (450)	160 (710)	205 (910)	250 (1113)	300 (1330)	380 (1690)
Elongation, %	ASTM D-4632	100,000 SF	50	50	50	50	50	50
CBR Puncture, lbs (kN)	ASTM D-6241	500,000 SF	310 (1.4)	410 (1.8)	500 (2.2)	700 (3.1)	800 (3.6)	1025 (4.6)
Trapezoidal Tear, lbs (N)	ASTM D-4533	100,000 SF	50 (223)	60 (269)	80 (359)	100 (450)	115 (510)	140 (623)
Endurance								
UV Resistance % Strength Retained after 500 hrs	ASTM D-4355	Formulation	70	70	70	70	70	70
Hydraulic								
Apparent Opening Size, US Sieve (mm) ^{2,3}	ASTM D-4751	500,000 SF	70 (0.212)	70 (0.212)	80 (0.180)	100 (0.150)	100 (0.150)	100 (0.150)
Permittivity ² , sec ⁻¹	ASTM D-4491	500,000 SF	1.8	1.4	1.1	1.0	0.8	0.5
Water Flow Rate ² , g/min/sf (l/min/m ²)	ASTM D-4491	500,000 SF	135 (5500)	110 (4479)	90 (3675)	75 (3056)	70 (2852)	45 (1833)
Roll Dimensions								
	Width, ft (m)		15 (4.6)	15 (4.6)	15 (4.6)	15 (4.6)	15 (4.6)	15 (4.6)
	Length, ft (m) (m)		1,200 (110)	825 (252)	600 (183)	525 (160)	405 (123)	300 (92)
	Area, sf (m ²)		18,000 (1,672)	12,375 (1,150)	9,000 (836)	7,875 (732)	6,075 (564)	4,500 (418)

NOTES:

1. Effective May 2016 and subject to change without notice.
2. Values established at the time of manufacturing. Handling, storage, and shipping may change these properties.
3. Apparent Opening Size, (AOS), reported as maximum average roll value.

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