

TECHNICAL DATA SHEET OF STANDARD GEOTEXTILES



Geotextiles are nonwoven geotextile manufactured using advanced bico technology from UV stabilised virgin polyolefin that have been thermally bonded to provide high tensile strength and excellent hydraulic characteristics.

PROPERTIES	TEST METHOD	UNITS	MEAN VALUE (APPLIED TOLERANCE VALUE)									
			T500	T700	T900	T1000	T1300	T1500	T2000	T3000	T4000	T4500
MECHANICAL												
Wide-Width Tensile Strength	EN ISO 10319	kN/m	3.6 (-0.36)	6.0 (-0.60)	7.5 (-0.75)	8.0 (-0.80)	10.5 (-1.05)	12.5 (-1.25)	14.5 (-1.45)	16.0 (-1.60)	22.0 (-2.20)	25.0 (-2.50)
Grab Tensile Strength	ASTM D4632	N	250 (-25)	500 (-85)	600 (-100)	660 (-100)	900 (-150)	970 (-150)	1400 (-250)	1600 (-280)	2050 (-410)	2200 (-220)
Elongation	EN ISO 10319 ASTM D4632	%	35 (±15)	40 (±15)	45 (±15)	50 (±20)	50 (±20)	50 (±20)	50 (±20)	50 (±20)	50 (±20)	50 (±20)
C.B.R. Puncture Resistance	EN ISO 12236 ASTM D6241	N	750 (-75)	1050 (-105)	1350 (-135)	1500 (-150)	2000 (-200)	2250 (-225)	2750 (-275)	3250 (-325)	4300 (-430)	4900 (-490)
Trapezoidal Tear Strength	ASTM D4533	N	150 (-15)	250 (-60)	275 (-80)	300 (-70)	410 (-100)	470 (-160)	650 (-160)	690 (-160)	860 (-200)	900 (-90)
Cone Drop	EN ISO 13433	mm	45 (+8)	42 (+8)	40 (+8)	38 (+8)	34 (+8)	32 (+6)	26 (+6)	24 (+5)	22 (+4)	20 (+4)
HYDRAULIC												
Permittivity	ASTM D4491	s ⁻¹	2.36	2.26	2.10	2.00	1.60	1.50	1.30	1.10	0.90	0.40
Permeability (H ₅₀)	EN ISO 11058 ASTM D4491	l/m²s	120 (-36)	115 (-35)	105 (-30)	100 (-30)	80 (-25)	75 (-25)	65 (-20)	55 (-15)	45 (-15)	20 (-6)
Opening Size	EN ISO 12956	µm	200 (±50)	180 (±50)	160 (±50)	150 (±50)	130 (±40)	125 (±40)	110 (±30)	100 (±30)	85 (±25)	75 (±25)
Opening Size	ASTM D4751	mm	0.380 (±30%)	0.294 (±30%)	0.206 (±30%)	0.208 (±30%)	0.148 (±30%)	0.143 (±30%)	0.110 (±30%)	0.081 (±30%)	<0.075 -	<0.075 -
ENDURANCE												
UV Resistance @500 Hrs	ASTM D4355	%	≥70	≥70	≥70	≥70	≥70	≥70	≥70	≥70	≥70	≥70
PHYSICAL (Typical Value)												
Thickness @ 2kPa	EN ISO 9863-1 ASTM D5199	mm	0.45	0.55	0.60	0.65	0.75	0.82	0.92	1.06	1.25	1.30
ROLL DIMENSIONS												
Width	-	m	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Length	-	m	150	150	150	100	100	100	100	100	50	50
Weight	-	kg	52	65	83	58	75	83	100	120	80	95

Composition: Polyolefin

Durability: Predicted to be durable for more than 100 years in natural soils with a range of pH 4-9

Chemical Resistance: Resistant to naturally occurring soil alkalis. Resistant to all naturally occurring soil acids. (i.e. to acids of pH > 2)

Exposure to Sunlight: Keep product wrapped until used. Unwrapped product shall cover within 15 days after installation to avoid UV radiation exposure

Notes: TDS Issue No. 01/01-06-2024. The company reserves the right to make changes in published data without any prior notice

The values given for tensile and tear strengths are average of MD and CMD obtained in our in-house laboratory and/or in testing institutes

Markets

Application Function

Highways: Paved and unpaved roads, Sub-surface drainage, Culverts and outfalls Irrigation and sewerage, Reservoir and river shores, Dam and canal bunds

Coastal Landfill: Geomembrane protection, Filter separators

Landscaping: Water proofing applications, Weed and root barrier, Car parks and hard stands

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