LAYFIELD GEOSYNTHETICS

TECHNICAL SPECIFICATIONS

TYPAR SPUN BONDED NONWOVEN GEOTEXTILES

Heat-bonded nonwoven geotextiles (such as Typar®) are a variation of the nonwoven geotextile type. Typar® geotextiles use continuous polypropylene fibres that are heated together to form a continuous mat. Typar® geotextiles have good water flow performance and excellent retention of soil fines. While Typar® has been used to provide separation in paved and unpaved roads, it is predominately used in drainage applications. Such as trench drains, wrapping for perforated pipe, landscaping fabric, and combined with three-dimensional structures to create prefabricated drainage products. Typar® is used when very fine soil particles need to be retained. Typar® is best known as landscape fabric and is used extensively as a root barrier beneath paving stones or under decorative stones, bark or mulch.

April 2023

Typar Geotextiles – US Values

Material Properties

	ASTM	**3201**	**3301**	**3341**	**3401**	**3601**	**3801**
Grab Tensile (lbs)	D4632	60	120	120	130	240	300
Elongation (%)	D4632	60	60	60	60	60	60
Trapezoidal Tear (lbs)	D4533	25	35	40	60	90	95
Puncture (lbs)	D4833	18	25	34	41	67	93
CBR Puncture (lbs)	D6241	n/a	n/a	n/a	225	370	510
AOS (sieve size)	D4751	30	50	60	70	140	170
Permittivity (sec-1)	D4491	1.0	0.8	0.7	0.7	0.1	0.1
Water Flow (gpm/ft^2) Typical	D4491	190	95	85	60	15	8
Weight (oz/yd^2) Typical	D3776	1.9	3.0	3.4	4.0	6.0	8.0
UV Resistance (500 hrs)	D4355	n/a	n/a	70%	70%	70%	70%
Roll Size (ft)		12.58 x 300	12.58 x 300	12.58 x 300	12.58 x 300	12.58 x 300	12.58 x 300
Roll Weight (lbs)		58	87	97	113	165	218

LAYFIELD GEOSYNTHETICS

TECHNICAL SPECIFICATIONS

TYPAR SPUN BONDED NONWOVEN GEOTEXTILES

April 2023

Typar Geotextiles – Metric Values

Material Properties

	ASTM	3201	3301	3341	3401	3601	3801
Grab Tensile (N)	D4632	267	533	533	578	1,067	1,445
Elongation (%)	D4632	60	60	60	60	60	60
Trapezoidal Tear (N)	D4533	110	155	180	270	400	425
Puncture (N)	D4833	80	110	150	180	300	415
CBR Puncture (N)	D6241	n/a	n/a	n/a	990	1,650	2,285
AOS (microns)	D4751	590	300	250	212	100	90
Permittivity (sec-1)	D4491	1.0	0.8	0.7	0.7	0.1	0.1
Water Flow (l/min/m^2) Typical	D4491	7,790	3,895	3,485	2,460	615	328
Weight (g/m^2) Typical	D3776	65	104	116	136	204	272
UV Resistance (500 hrs)	D4355	n/a	n/a	70%	70%	70%	70%
Roll Size (m)		3.83 x 91.4	3.83 x 91.4	3.83 x 91.4	3.83 x 91.4	3.83 x 91.4	3.83 x 91.4
Roll Weight (kg)		26	40	44	51	75	99