

Filament Polyester Geotextile

Geosynthetic Product Specification

Product overview

Continuous filament needle-punched nonwoven geotextile made from virgin polyester. The listed grades contain mechanical, hydraulic and roll-dimension specifications.

TECHNICAL SPECIFICATIONS

Grade specifications / BTF100, BTF150, BTF200, BTF250

Property	Unit	BTF100	BTF150	BTF200	BTF250	Test Method
Ultimate Tensile Strength, MD	kN/m	7	11	14	17	ASTM D4595
Ultimate Tensile Strength, TD	kN/m	6	10	12	15	ASTM D4595
Tensile Elongation	%	45	45	50	50	ASTM D4595
Grab Tensile Strength, MD	N	400	600	850	1000	ASTM D4632
Grab Tensile Strength, TD	N	350	550	700	900	ASTM D4632
Grab Elongation	%	45	45	50	50	ASTM D4632
Trapezoid Tear Strength, MD	N	160	300	350	430	ASTM D4533
Trapezoid Tear Strength, TD	N	140	270	330	400	ASTM D4533
CBR Puncture Strength	N	1000	1800	2300	2700	ASTM D6241
Apparent Opening Size O90	mm	0.12	0.11	0.11	0.1	ASTM D4751
Water Flow Q100	L/m2 /s	250	235	220	200	ASTM D4491
Weight	g/m2	100	150	200	250	ASTM D5261
Thickness	mm	1.2	1.8	2.3	2.9	ASTM D5199
Roll Length	m	300	200	150	100	-

Grade specifications / BTF300, BTF350, BTF400

Property	Unit	BTF300	BTF350	BTF400	Test Method
Ultimate Tensile Strength, MD	kN/m	19	24	27	ASTM D4595
Ultimate Tensile Strength, TD	kN/m	17	21	25	ASTM D4595
Tensile Elongation	%	50	60	60	ASTM D4595
Grab Tensile Strength, MD	N	1250	1450	1700	ASTM D4632
Grab Tensile Strength, TD	N	1100	1250	1450	ASTM D4632
Grab Elongation	%	50	60	60	ASTM D4632
Trapezoid Tear Strength, MD	N	490	540	630	ASTM D4533
Trapezoid Tear Strength, TD	N	450	510	610	ASTM D4533
CBR Puncture Strength	N	3200	3600	4400	ASTM D6241
Apparent Opening Size O90	mm	0.09	0.09	0.08	ASTM D4751
Water Flow Q100	L/m2 /s	185	165	125	ASTM D4491
Weight	g/m2	300	350	400	ASTM D5261
Thickness	mm	3.2	3.6	3.9	ASTM D5199
Roll Length	m	100	100	80	-

Grade specifications / BTF450, BTF500, BTF600

Property	Unit	BTF450	BTF500	BTF600	Test Method
Ultimate Tensile Strength, MD	kN/m	30	37	41	ASTM D4595
Ultimate Tensile Strength, TD	kN/m	28	34	38	ASTM D4595
Tensile Elongation	%	60	60	60	ASTM D4595
Grab Tensile Strength, MD	N	1900	2100	2500	ASTM D4632
Grab Tensile Strength, TD	N	1600	1800	2150	ASTM D4632
Grab Elongation	%	60	60	60	ASTM D4632
Trapezoid Tear Strength, MD	N	710	770	920	ASTM D4533
Trapezoid Tear Strength, TD	N	690	750	900	ASTM D4533
CBR Puncture Strength	N	4800	5800	6900	ASTM D6241
Apparent Opening Size O90	mm	0.08	0.08	0.08	ASTM D4751
Water Flow Q100	L/m2 /s	110	90	80	ASTM D4491
Weight	g/m2	450	500	600	ASTM D5261
Thickness	mm	4.2	4.4	4.8	ASTM D5199
Roll Length	m	80	50	50	-

Grade specifications / shared values for all listed grades

Property	Unit	Specification / Value	Test Method
Roll Width	m	6	-

Test-method references are reproduced from the available product data.

Technical disclaimer

Specifications shown in this document are based on the available product data for the listed grade or series. Final specifications, dimensions and documentation should be confirmed according to the selected product and project requirements.