

# TS - Separation & Filtration Nonwovens

## Technical Data

TenCate Polyfelt TS geotextiles are mechanically bonded continuous filament nonwovens from 100% UV stabilized polypropylene. They are characterized by a high resistance to installation damage, high water permeability and increased UV resistance.



TenCate Polyfelt TS

Properties [Standard]	Unit	TS 10 (4.01)	TS 20 (4.01)	TS 30 (4.01)	TS 40	TS 50	TS 60	TS 65	TS 70	TS 80	
<b>Mechanical Properties</b>											
Tensile strength [EN ISO 10319]	MD	kN/m	7.5	9.5	11.5	13.5	15.0	20.0	21.5	24.0	28.0
	CD	kN/m	7.5	9.5	11.5	13.5	15.0	20.0	21.5	24.0	28.0
Elongation at max. load [EN ISO 10319]	MD	%	90	90	90	100	100	100	100	100	100
	CD	%	75	75	75	40	40	40	40	40	40
Static puncture resistance (CBR-Test) [EN ISO 12236]		N	1200	1500	1750	2100	2350	2900	3300	3850	4250
Cone drop test (hole-Ø) [EN ISO 13433]		mm	28	24	20	25	22	19	17	15	14
<b>Hydraulic Properties</b>											
Permeability vertical [EN ISO 11058] (dh = 50 mm)		l/m <sup>2</sup> s (mm/s)	130	115	100	100	90	80	70	60	55
Opening size O <sub>90</sub> [EN ISO 12956]		micron	105	105	100	100	100	95	95	90	90
<b>Identification Properties</b>											
Thickness [EN ISO 9863-1]	2 kPa	mm	0.8	0.9	1.1	1.7	1.9	2.2	2.5	2.9	3.2
Mass per unit area [EN ISO 9864]		g/m <sup>2</sup>	105	125	155	180	200	260	285	325	385
<b>Forms of Supply</b>											
Width		m	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4
Length		m	300	250	225	200	175	135	125	100	90

The values given are average values obtained in our laboratories and in testing institutes. The right is reserved to make changes without notice at any time.

### TENCATE GEOSYNTHETICS AUSTRIA GMBH

Schachermayerstr. 18 Tel. +43 732 6983 0, Fax +43 732 6983 5353  
A-4021 Linz, Austria service.at@tencate.com, www.tencate.com/geosynthetics

**BeNeLux** Tel. +31 546 544 811 service.nl@tencate.com  
**Central Eastern Europe** Tel. +43 732 6983 0 service.at@tencate.com  
**Czech Republic** Tel. +420 2 2425 1843 service.cz@tencate.com  
**France / Africa** Tel. +33 1 34 23 53 63 service.fr@tencate.com  
**Germany** Tel. +49 6074 3751 50 service.de@tencate.com  
**Italy** Tel. +39 0362 34 58 11 service.it@tencate.com  
**Near Middle East** Tel. +971 5048 10557 service.mme@tencate.com

**Poland** Tel. +48 12 268 8375 service.pl@tencate.com  
**Romania** Tel. +40 21 322 06 08 service.ro@tencate.com  
**Russia / CIS** Tel. +7 495 739 12 60 service.ru@tencate.com  
**Scandinavia / Baltics** Tel. +45 4485 7474 service.dk@tencate.com  
**Spain / Portugal** Tel. +34 91 650 6461 service.es@tencate.com  
**Switzerland** Tel. +41 44 318 6590 service.ch@tencate.com  
**UK / Ireland** Tel. +44 1952 588 066 service.uk@tencate.com



502 036 | 04.2008

Protective & Outdoor Fabrics  
Aerospace Composites  
Armour Composites

Geosynthetics  
Industrial Fabrics  
Grass