

# 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 F-3	TS 20 F-3	TS 30 F-4	TS 40 F-4	TS 50 F-5	TS 60 F-6	TS 65 F-6	TS 70 F-7	TS 80 F-8
<b>Mechanical Properties</b>										
Tensile strength [EN ISO 10319]	MD/CD kN/m	8 / 8	9 / 9	12 / 12	14 / 14	16 / 16	20 / 20	22 / 22	25 / 25	30 / 30
Elongation at max. load [EN ISO 10319]	MD/CD %	80 / 70	80 / 65	80 / 70	80 / 70	80 / 70	80 / 70	80 / 70	85 / 75	80 / 70
CBR puncture resistance [EN ISO 12236]	N	1200	1400	1750	2100	2350	3000	3350	3850	4500
CBR puncture displacement [EN ISO 12236]	mm	59	59	57	57	57	59	59	59	59
Cone drop test (hole-Ø) [EN ISO 13433]	mm	32	28	25	22	21	17	16	15	12
<b>Hydraulic Properties</b>										
Permeability vertical [EN ISO 11058 – Δh = 50 mm]	l/m <sup>2</sup> s (mm/s)	100	100	100	90	85	70	65	55	50
In-plane flow capacity [EN ISO 12958]	20 kPa 10 <sup>-7</sup> m <sup>2</sup> /s 100 kPa 10 <sup>-7</sup> m <sup>2</sup> /s	5.3 2.8	7.2 3.0	10 4.0	13 4.5	15 5.0	20 5.5	24 6.1	27 6.8	37 9.9
Opening size O <sub>90</sub> [EN ISO 12956]	µm	105	105	100	100	100	95	90	85	85
<b>Identification Properties</b>										
Thickness [EN ISO 9863-1]	2 kPa mm	1.2	1.4	1.6	1.8	2.0	2.4	2.6	2.7	3.4
Mass per unit area [EN ISO 9864]	g/m <sup>2</sup>	105	125	155	180	200	250	285	305	385
<b>Forms of Supply</b>										
Width	m	6	6	6	6	6	6	6	6	6
Length	m	300	250	230	200	180	140	125	100	90

The values given are indicative and correspond to 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.tencategeosynthetics.com

**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** Fax +33 1 34 23 53 48 service.fr@tencate.com  
**Germany** Tel. +49 30 3435 02 10 service.de@tencate.com  
**Italy** Tel. +39 0362 34 58 11 service.it@tencate.com  
**Near Middle East** Tel. +971 4810 3295 service.nme@tencate.com

**Poland** Tel. +48 12 268 8375 service.pl@tencate.com  
**Russia | CIS** Tel. +43 732 6983 0 service.ru@tencate.com  
**Scandinavia | Baltics** Tel. +31 546 544 811 geonordic@tencate.com  
**Spain | Portugal** Tel. +34 607 499 962 service.es@tencate.com  
**Turkey** Tel. +43 732 5983 0 service.tr@tencate.com  
**UK | Ireland** Tel. +44 1952 588 066 service.uk@tencate.com



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