

TECHNICAL DATASHEET

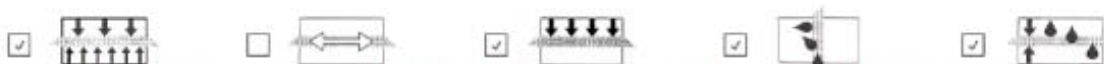
GEOFELT PE-R 500



Non woven Geotextile manufactured from polyester fibers, only needlepunched.
Suitable for the following applications:

<input checked="" type="checkbox"/>		EN ISO 13249:2016 Characteristics required for use in the construction of roads and other trafficked areas.	<input checked="" type="checkbox"/>		EN ISO 13250:2016 Characteristics required for use in the construction of railways.
<input checked="" type="checkbox"/>		EN ISO 13251:2016 Characteristics required for use in earthworks, foundations and retaining structures.	<input checked="" type="checkbox"/>		EN ISO 13252:2016 Characteristics required for use in drainage systems.
<input checked="" type="checkbox"/>		EN ISO 13253:2016 Characteristics required for use in erosion control works (coastal protection, bank revetments).	<input checked="" type="checkbox"/>		EN ISO 13254:2016 Characteristics required for use in the construction of reservoirs and dams.
<input checked="" type="checkbox"/>		EN ISO 13255:2016 Characteristics required for use in the construction of canals.	<input checked="" type="checkbox"/>		EN ISO 13256:2016 required for use in the construction of tunnels and underground structures.
<input checked="" type="checkbox"/>		EN ISO 13257:2016 Characteristics required for use in solid waste disposal.	<input checked="" type="checkbox"/>		EN ISO 13265:2016 Characteristics required for use in liquid waste containment projects.

Functions:



Characteristic	Test Method	Unit	Nominal Value	Tolerance
Mass per unit area	EN ISO 9864	g/m ²	500	-75
Thickness	EN ISO 9863-1	mm	2 kPa: 2,40 MD: 4,00 CMD: 5,20 DIAG: NPD	-0,48 -1,20 -1,60 NPD
Wide-Width tensile strength	EN ISO 10319	kN/m	MD: 60,00 CMD: 65,00 DIAG: NPD	-20 / +20 -20 / +20 NPD
Elongation	EN ISO 10319	%	MD: 60,00 CMD: 65,00 DIAG: NPD	-20 / +20 -20 / +20 NPD
Energy Index	EN ISO 10319	kN/m	NPD	NPD
Static puncture resistance	EN ISO 12236	N	800	-250
Dynamic perforation test	EN ISO 13433	mm	18,0	+ 3,6
Pyramidal puncture resistance	NF G 38019	kN	NPD	NPD
Supported Pyramidal Puncture Resistance	EN 14574	N	150	-30
Characteristic opening size - O90	EN ISO 12956	µm	60	-30 / +30
Permeability normal to the plane	EN ISO 11058	m/s	0,035	-0,010
Long term protection efficiency	EN 13719	%	300 kPa: NPD 600 kPa: NPD 1200 kPa: NPD	NPD NPD NPD
Water flow capacity in the plane	EN ISO 12958	m ² /s	20 kPa - i=1: 2,00E-06 100 kPa - i=1: NPD 200 kPa - i=1: NPD	-6,00E-07 NPD NPD
Durability prediction	EN 13249/57:2016, ANNEX B EN 13265:2016, ANNEX B	To be covered within 1 day after installation. Predicted to be durable 5 years in natural soils with 4<ph<9 and soil temperature < 25 °C		
Chemical resistance	EN 14030	Residual strength	MD: NPD CMD: NPD	NPD NPD
Microbiological resistance	EN 12225	Residual strength	MD: NPD CMD: NPD	NPD NPD

MD : Machine Direction - CMD : Cross Machine Direction - NPD: No performance determined / declared

TOLERANCE ON ROLL WIDTH: ± 3 cm. TOLERANCE ON ROLL LENGTH: ± 2% IF LENGTH ≤ 200 m, ± 1% IF LENGTH > 200 m.

STANDARD CORES: PAPER, DIAMETER INNER 71mm / OUTER 78mm ± 5%.

TECHNICAL DATA BASED ON STATISTIC ANALYSIS ON 95% CONFIDENCE LIMIT. PRESENT DATA SHEET CAN BE MODIFIED WITHOUT PRIOR NOTICE



Quality Management according to UNI EN ISO 9001:2008

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