

# GEODREN PPST 400



1213-CPD-3269

Nonwoven geotextile made by high tenacity polypropylene staples, UV stabilized, needlepunched and calandered, produced without using of any glues or chemical binders and post-consumer raw material.

Physical properties	Standard		Value	Units	Tolerance %	Tolerance (units)
Mass per unit area	[EN ISO 9864]		400	g/m <sup>2</sup>	+/- 10	+/- 40
Thickness	[EN ISO 9863-1] 2 kPa		2,50	mm	+/- 20	+/- 0,50
	[EN ISO 9863-1] 20 kPa		2,00	mm	+/- 20	+/- 0,40
	[EN ISO 9863-1] 200 kPa		1,60	mm	+/- 20	+/- 0,32
Mechanical properties	Standard		Value	Units	Tolerance %	Tolerance (units)
Tensile strength	[EN ISO 10319] MD		30,0	kN/m	- 10	- 3,0
	[EN ISO 10319] CMD		34,0	kN/m	- 10	- 3,4
Elongation at maximum load	[EN ISO 10319] MD		70	%	+/- 30	+/- 21
	[EN ISO 10319] CMD		70	%	+/- 30	+/- 21
Energy absorption index	[EN ISO 10318]		11,20	kJ/m <sup>2</sup>	- 20	- 2,24
Static puncture resistance (CBR)	[EN ISO 12236]		5,50	kN	- 10	- 0,55
Dynamic puncture resistance	[EN ISO 13433]		6	mm	+ 20	+ 1
Pyramidal puncture resistance	[EN 14574]		350	N	- 20	- 70
Hydraulic properties	Standard		Value	Units	Tolerance %	Tolerance (units)
Velocity index	[EN ISO 11058]		35	mm/s	- 30	- 11
In-plane flow capacity	[EN ISO 12958]		3,20	10-3 l/ms	- 30	- 0,96
Transmissivity	[EN ISO 12958] 20 kPa		3,20	10-3 l/ms	- 30	- 0,96
Characteristic opening size	[EN ISO 12956]		50	µm	+/- 30	+/- 15
Durability properties						
Weathering resistance	[EN 12224]		To be covered within 30 days from the day of installation.			
Residual strength after weathering test	[EN 12226]		Residual strength higher than 60% of initial resistance.			
Resistance to oxidation	[EN ISO 13438]		Forecast minimum durability of 25 years in natural ground with 4<pH<9 and soil temperature < 25°C.			
Residual strength after oxidation test	[EN 12226]		Residual strength greater than or equal to 50% of initial resistance.			

The values given are an average obtained in our laboratories and in official testing institutes.  
 The confidence level is 95%  
 The right is reserved to make changes any time without notice.

MD = Machine Direction/Longitudinale; CMD = Cross Machine Direction/Trasversale; NA = Not Applicable/Non Applicabile

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**Prepared by CQ**

**Approved by UT**