

# GEODREN PPST 250



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]	250	g/m <sup>2</sup>	+/- 10	+/- 25
Thickness	[EN ISO 9863-1] 2 kPa	1,50	mm	+/- 20	+/- 0,30
	[EN ISO 9863-1] 20 kPa	1,20	mm	+/- 20	+/- 0,24
	[EN ISO 9863-1] 200 kPa	1,00	mm	+/- 20	+/- 0,20

Mechanical properties	Standard	Value	Units	Tolerance %	Tolerance (units)
Tensile strength	[EN ISO 10319] MD	20,0	kN/m	- 10	- 2,0
	[EN ISO 10319] CMD	20,0	kN/m	- 10	- 2,0
Elongation at maximum load	[EN ISO 10319] MD	65	%	+/- 30	+/- 20
	[EN ISO 10319] CMD	70	%	+/- 30	+/- 21
Energy absorption index	[EN ISO 10318]	6,80	kJ/m <sup>2</sup>	- 20	- 1,36
Static puncture resistance (CBR)	[EN ISO 12236]	3,00	kN	- 10	- 0,30
Dynamic puncture resistance	[EN ISO 13433]	14	mm	+ 20	+ 3
Pyramidal puncture resistance	[EN 14574]	280	N	- 20	- 56

Hydraulic properties	Standard	Value	Units	Tolerance %	Tolerance (units)
Velocity index	[EN ISO 11058]	75	mm/s	- 30	- 23
In-plane flow capacity	[EN ISO 12958]	2,30	10-3 l/ms	- 30	- 0,69
Characteristic opening size	[EN ISO 12956]	60	µm	+/- 30	+/- 18

Durability properties	Standard	Value	Units	Tolerance %	Tolerance (units)
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

**Ref.**  
 Cod. 000069  
 Rev.2  
 Data Rev.: 24-08-2011

**Prepared by CQ**

**Approved by UT**