

# DECLARATION OF PERFORMANCE

Nº: 0007 – GEOTEXTIL – 20130701

## GEOTESAN PP NT 15

Nonwoven geotextile makes up 100% polypropylene fibres joined by a needled process and a later thermofixation.  
The traceability is warranted because of the batch and serial number that you can see in the roll's label.

**Uses: Drainage-Filtration-Reinforcement-Separation.**

**Manufactured by GEOTEXAN, SA.**

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**Evaluation System: 2+**

**Bureau Veritas Certificación, SA – 1035**  
**Assessment and evaluation of factory production control**  
**System 2+**

**1035 – CPR – ES033858 - A, 31th October of 2014**

| ESSENTIAL CHARACTERISTICS  | PERFORMANCE   | HARMONISED NORMS |
|--|---|------------------|
| Mass per unit area (EN ISO 9864)   | 125,00 g/m <sup>2</sup> (+/- 10,00%)  | EN 13249:2017    |
| Tensile strength (EN ISO 10319)<br>MD: Machine Direction; CMD: Cross Machine Direction | MD 9,50 kN/m (-13,00%)<br>CMD 10,00 KN/m (-13,00%)  | EN 13250:2017    |
| Elongation (EN ISO 10319)  | MD 57,23% (+/- 8,58)<br>CMD 60,55% (+/- 9,08)   | EN 13251:2017    |
| Dynamic perforation resistance (EN ISO 13433)  | 24,00 mm (+9,0)   | EN 13252:2017    |
| Static puncture resistance (CBR) (EN ISO 12236)  | 1,56 KN (-0,16)   | EN 13253:2017    |
| Characteristic opening size (EN ISO 12956)   | 61,0 µm (+/- 18,0)  | EN 13253:2017    |
| Water permeability normal to the plane (EN ISO 11058)                                  | 0,100 m/s (-0,028)  | EN 13253:2017    |
| Flow capacity in the plane (EN ISO 12958)<br>Gradient q20/1,0<br>Gradient q200/1,0     | 5,19*10 <sup>-6</sup> m <sup>2</sup> /s (-30,00%)<br>1,85*10 <sup>-6</sup> m <sup>2</sup> /s (-30,00%)  | EN 13254:2017    |
| Thickness under 2 kPa (EN ISO 9863/1)  | 1,26 mm (+/-20,0%)  | EN 13255:2017    |
| Durability (EN ISO 12224)  | To be covered in the day of installation for reinforcing and in 2 weeks for other application. Avoid to put the geotextiles in contact with other products that they can damage or modify them. | EN 13256:2017    |
| Oxidation resistance (EN ISO 13438)  | Predicted to be durable for a minimum Of 25 years in natural soil with 4 < pH < 9 and temperatures < 25°C   | EN 13257:2017    |
|  |   | EN 13265:2017    |

The product's performance identified like GEOTESAN PP NT 15 is in conformity with the declared performance in the upper board. This declaration of performance is issued the conformity with Regulation EU N° 305/2011 under the sole responsibility of GEOTEXAN, SA. Signed for and on behalf of GEOTEXAN, SA by:

Jesús Madrid Soldán  
Quality Manager of Geotexan, SA.

Minas de Riotinto, 13th July of 2017.