

## DATA SHEET

**TX-70**

PRODUCT DESCRIPTION : Nonwoven needled geotextile

FUNCTIONS : Filtration and separation

PRODUCT SPECIFICATION : This product is NTPEP tested for AASHTO M288 standard, OPSS 1860, nonwoven, Class I, the Table 601-1 of the New Brunswick specification, N1 and Alberta Transportation Standard Specifications for Highway Construction, Table 5.31.3, Type A.

RAW MATERIAL : Polypropylene

### TECHNICAL DATA TABLE

|                            | PROPERTIES                               | TEST METHOD            | VALUES                      |                               |
|----------------------------|--|------------------------|-----------------------------|-------------------------------|
|                            |  |                        | Metric                      | Imperial                      |
| PHYSICAL                   | Thickness                                | ASTM D5199             | ≥ 0.8 mm                    | ≥ 32 mils                     |
|                            | Mass per unit area                       | ASTM D5261             | -                           | -                             |
| MECHANICAL                 | Tensile strength                         | ASTM D4632             | ≥ 445 N                     | ≥ 100 lb                      |
|                            | Elongation at break                      | ASTM D4632             |                             | ≥ 50 %                        |
|                            | Tear strength                            | ASTM D4533             | ≥ 180 N                     | ≥ 40 lb                       |
|                            | Puncture strength (CBR)                  | ASTM D6241             | ≥ 1320 N                    | ≥ 297 lb                      |
| HYDRAULIC                  | Flow rate                                | ASTM D4491             | ≥ 6095 l/min/m <sup>2</sup> | ≥ 150 gal/min/ft <sup>2</sup> |
|                            | Permittivity                             | ASTM D4491             |                             | ≥ 2.05 s <sup>-1</sup>        |
|                            | Apparent opening size (AOS) <sup>1</sup> | ASTM D4751             | 300 μm                      | 50 US Sieve                   |
|                            | Filtration opening size (FOS)            | CAN/CGSB-148,1 - No 10 | 75 - 150 μm                 |                               |
| PERFORMANCE AND DURABILITY | UV* resistance (500 hours)               | ASTM D4355             | ≥ 70 %                      |                               |
| DIMENSIONS                 | Standard width                           | -                      | 3.81 m                      | 12.5 ft                       |
|                            | Standard length                          | -                      | 4.57 m                      | 15 ft                         |
|                            |  |                        | 110 m                       | 361 ft                        |

NOTE 1 : Maximum test value

\*UV: Ultraviolet.

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APPLICATIONS : Slab and building foundation  
Drainage trench  
Retaining walls and embankments

