

Dagangan : GEOTEXTILE WOVEN
POLYPROPYLENE

Kod Tarif (Perintah Duti Kastam 2012) :

Nama Perdagangan : Mirafi HP Geotextile
Jenama : Mirafi
Model : Mirafi HP

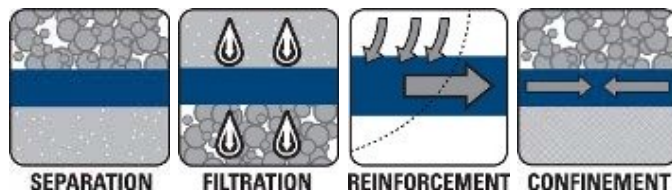
5407.20 990

Tarikh Kelulusan : 13 Mac 2015

Barangan adalah sejenis woven *geotextile* yang dihasilkan daripada *robust polypropylene yarns*. Ia diimport dalam gulungan berukuran 4 meter lebar dan 100 meter panjang.

Berdasarkan katalog yang dikemukakan, barangan digunakan sebagai fungsi pemisahan di mana apabila geosintetik diletakkan di antara subgred dengan tapak turapan, tapak dilindungi daripada kemasukan tanah subgred yang lemah atau lembut. Dengan ini, ia dapat membentuk satu platform yang stabil untuk pembinaan. Ia juga dapat mengurangkan kehilangan bahan tanah yang menembusi kedalam subgred.

i. Barangan berfungsi untuk :



Contoh penggunaan barangan di kawasan penyimpanan kontena :



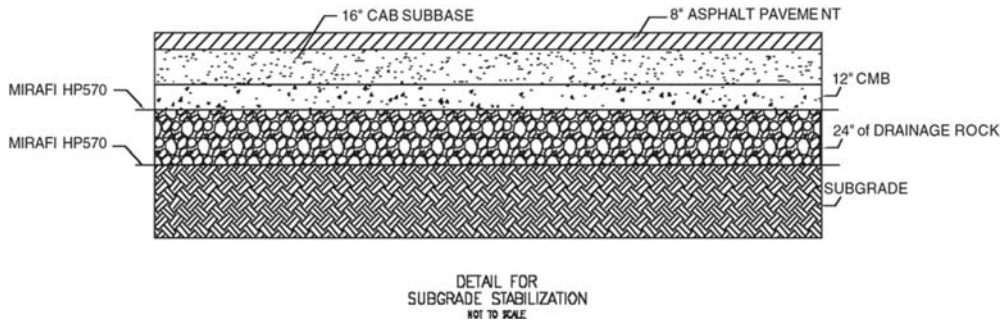
Above : Container storage area

total of 33,000 square yards of Mirafi® HP570 was delivered to this project.

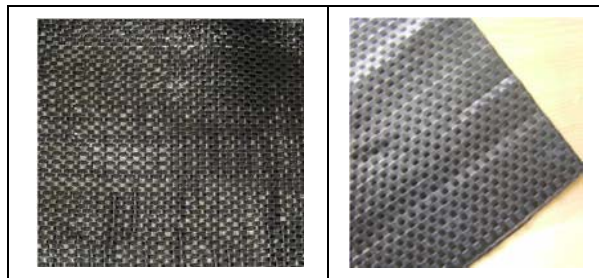
THE PERFORMANCE

In preconstruction field trials, Mirafi® HP570 controlled the waving and pumping subgrade condition. Mirafi® HP570 Woven Geotextile was best suited in the construction of a stable platform for the paved container storage area on this project because it provided a separation layer between the fine grained subgrade materials and the drain rock while offering the filtration and flow characteristics similar to fine to coarse grained sand. Mirafi® HP570 also provided the high strength reinforcement characteristics necessary to stabilize the soft sub-soils found on this project site.

Below right: Placing the 15 foot wide rolls of Mirafi® HP570 geotextile



Gambar barangan adalah seperti berikut :



Keterangan dan spesifikasi barangan seperti maklumat yang dikemukakan oleh pemohon adalah seperti berikut :

Nama Barangan : Mirafi ® HP Woven Polypropylene Geotextiles				
Mechanical Properties		Test Standard	Unit	HP 570
Tensil Strength	MD	ISO 10319	kN/m	70
Tensile Strength	CD	ISO 10319	kN/m	70
Tensile elongation	MD	ISO 10319	%	15
Tensile elongation	CD	ISO 10319	%	15

Tensile Strength at 2% strain	MD		kN/m	10
Tensile Strength at 2% strain	CD		kN/m	20
Tensile Strength at 5% strain	MD		kN/m	35
Tensile Strength at 5% strain	CD		kN/m	45
CBR Puncture		ISO 12236 ASTM D6241	kN	7.5
UV Resistance (after 500 hours)		ASTM D4355	%	90

Barangan akan diletakkan di antara tanah subgrade dengan tapak turapan (the granulars fill material) untuk melindungi tapak daripada tanah subgred yang lemah atau lembut supaya satu platform yang stabil untuk pembinaan dapat dibentuk.

Analisis pakar mengesahkan sampel barangan berupa kepingan berwarna hitam dengan ukuran purata 21.5cm x 29.8cm. Hasil analisis mendapati barangan adalah *2/2 twill woven material* with multiple warp and weft yang diperbuat daripada "strips of reticulated monofilaments of polypropylene" yang masing-masing berukuran 2 mm dan 5 mm.

Barangan ini sesuai diperjeniskan di bawah kod tarif **5407.20 990** sebagai **other woven fabrics obtained from strip or the like** berdasarkan alasan-alasan berikut :

1. Barangan adalah sejenis *geotextile* yang dihasilkan daripada *high-tenacity polypropylene yarns, woven into a stable network such that the yarns retain their relative position..*

Geotextile serta kegunaannya dapat dijelaskan seperti berikut:

i. <http://en.wikipedia.org/wiki/Geotextile>

Geotextiles are permeable *fabrics* which, when used in association with *soil*, have the ability to separate, filter, reinforce, protect, or drain. Typically made from *polypropylene* or *polyester*, geotextile fabrics come in three basic forms: woven (looks like mail bag sacking), needle punched (looks like *felt*), or heat bonded (looks like ironed felt).

.....

Geotextiles and related products have many applications and currently support many *civil engineering* applications including *roads, airfields, railroads, embankments, retaining structures, reservoirs, canals, dams, bank* protection, *coastal engineering* and *construction* site *silt fences*.

2. *Polypropylene (PP)* adalah sejenis *thermoplastic polymer* used in a wide variety of applications including *packaging and labeling, textiles* (e.g., *ropes, thermal underwear and carpets*) plastic seperti yang dijelaskan dalam lamanweb <http://en.wikipedia.org/wiki/Polypropylene>
3. Oleh kerana barangan adalah *woven material* yang dihasilkan daripada *polypropylene strip* berukuran 2mm dan 5mm, maka ia memenuhi kriteria sebagai tektil seperti yang dijelaskan dalam Nota 1(g) kepada *Section XI* mukasurat XI-1 seperti berikut :

**Section XI
TEXTILE AND TEXTILE ARTICLES**

Notes

1. **This section does not cover :**

- (a) - (f)
- (g) **Monofilaments of which any cross-sectional dimension exceed 1mm or strip or the like exceed** (for example, artificial straw) of an apparent width exceeding 5mm, of plastics
- (h) - (v)

4. Walaupun barangan are support many civil engineering applications that is in a variety of soil reinforcement applications dan dianggap sebagai untuk kegunaan teknikal oleh pemohon, tetapi **penggunaannya tidak memenuhi kriteria sebagai untuk kegunaan teknikal** seperti yang dijelaskan dalam EN Chapter 59.11 mukasurat XI-5911-1 seperti berikut:

.....
The textile products and articles of this heading present particular characteristics which identify them as being for use in various types of machinery, apparatus, equipment or instruments or as tools or parts of tools

Berdasarkan keterangan dalam Chapter 59, tekstil untuk kegunaan teknikal bermaksud tekstil yang digunakan secara terus dalam mesin atau peralatan atau sesuatu perkakas atau sebahagian daripada sesuatu perkakas itu.

5. Berdasarkan faktor di atas, barangan adalah sesuai diperjeniskan di bawah kepala 54.07 dan mendapat liputan di dalam EN muka surat XI-5407-1 dan XI-5407-2 seperti berikut :

54.07 – *Woven fabrics of synthetic filament yarn, including woven fabrics obtained from materials of heading 54.04.*

5407.10 – *Woven fabrics obtained from high tenacity yarn of nylon or other polyamides or polyesters*

5407.20 – Woven fabrics obtained from strip or the like

.....
This heading covers woven fabrics (as described in Part (I)(C) of the General Explanatory Note to Section XI) made of synthetic filament yarn or of monofilament or strip of heading 54.04; it includes a very large variety of dress fabrics, linings, curtain materials, furnishing fabrics, tent fabrics, parachute fabrics, etc.

6. Barangan mendapat liputan secara khusus dalam PDK 2012 seperti berikut :

54.07 – Woven fabrics of synthetic filament yarn, including woven fabrics obtained from materials of heading 54.04.

5407.10 - *Woven fabrics obtained from high tenacity yarn of nylon or other polyamides or polyesters*

5407.20 - Woven fabrics obtained from strip or the like :

100 - *Tyre cord fabrics*

- - **Other**

910 - - - *Elastic fabrics and trimming consisting of synthetic materials combined*

With rubber threads

990 - - - Other