

# CASE STUDYS

## 里約奧運-台灣之光

足球、運動衣全是MIT

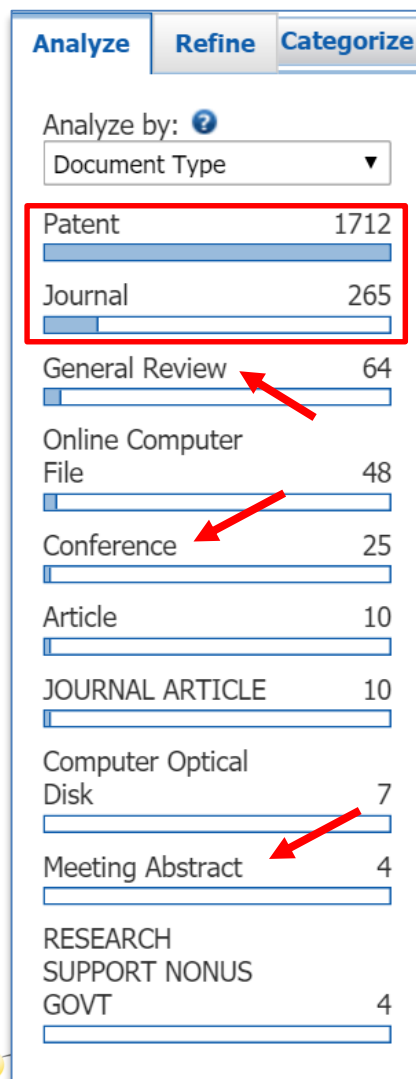
2016/08

# 關鍵字查詢：textile of sporting of material

The screenshot displays the SciPlanner web interface. At the top, there are tabs for 'Explore', 'Saved Searches', and 'SciPlanner'. On the left sidebar, under the 'REFERENCES' section, the 'Research Topic' option is highlighted with an orange box. An orange arrow points from this box to the search input field in the main area, which contains the text 'textile of sporting of material'. Below the input field, there are examples of search results: 'The effect of antibiotic residues on dairy products' and 'Photocyanation of aromati...'. A blue 'Search' button is located below the input field. To the right of the search button, there is a purple callout box with the text '查詢到兩千多篇相關的文獻'. Below the search button, there is a link to 'Advanced Search'. On the right side of the interface, there is a section for 'Get Substances' and 'Get Reactions'. Below this, there is a dropdown menu for 'Sort by: Accession Number'. A red box highlights the text '0 of 2003 References Selected'. Below this, there is a list of search results:

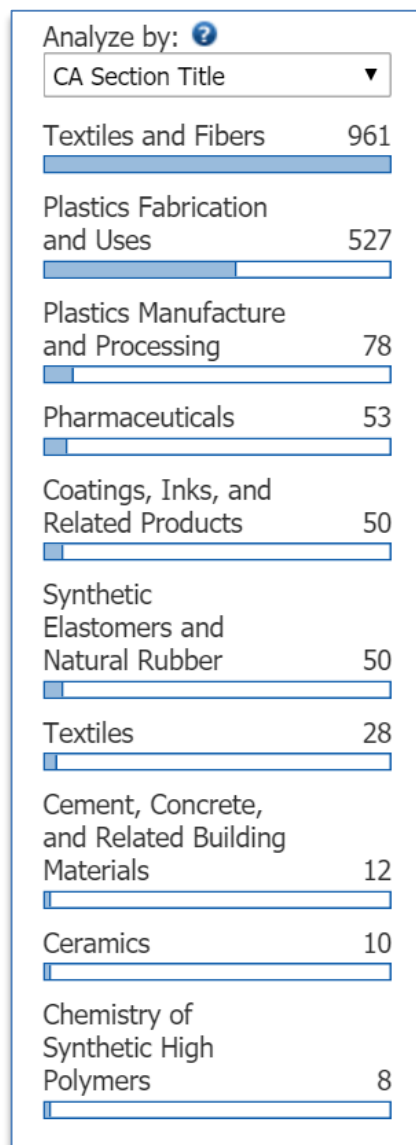
- 1. **Method and apparatus for manufacturing sporting goods, and the manufactured sporting goods**  
Quick View PATENTPAK  
By Holmes, Christopher Edward; Hill, Jean; Deichmann, Clemens Paul; Kirupantham, Giri Dharan; Manz, Gerd Rainer; Dolamore, Dietmar Klaus  
From Jpn. Kokai Tokkyo Koho (2016), JP 2016140763 A 20160808. | Language: Japanese, Database: CAPLUS
- 2. **Fabric material for pressure molding without adhesive and lamination**  
Quick View PATENTPAK  
By Wang, Jason  
From U.S. Pat. Appl. Publ. (2016), US 20160215418 A1 20160728. | Language: English, Database: CAPLUS
- 3. **Nonslip insole for sports [Machine Translation].**  
Quick View PATENTPAK  
By Kim, Tae Hyo; Jang, Chang O.  
From Repub. Korea (2016), KR 1638404 B1 20160720. | Language: Korean, Database: CAPLUS

# 由查找文獻(全球)得到的情報有：



## 文章的類型 (Document Type)

- 專利 > 期刊
- Review、Conference、Meeting Abstract 皆有此主題的探討。



## 研究的類型有：

- 紡織品和纖維
- 塑膠加工與用途
- 塑膠製造與加工
- 製藥
- 塗料、油墨及相關產品

# 最常使用到的化學物質結構：高分子系列

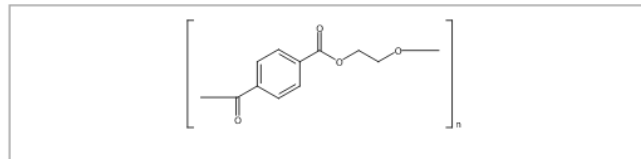
## Polymer Class Terms

1. 25038-59-9

~169292



~11



$(C_{10}H_8O_4)_n$

Poly(oxy-1,2-ethanediylloxycarbonyl-1,4-phenylenecarbonyl)

### Key Physical Properties

Regulatory Information

Spectra

Experimental Properties

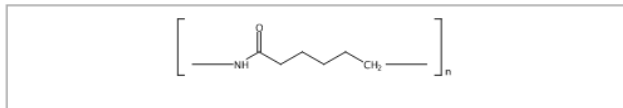
Polyester

2. 25038-54-4

~48521



~16



$(C_6H_{11}NO)_n$

Poly[imino(1-oxo-1,6-hexanediyl)]

### Key Physical Properties

Regulatory Information

Spectra

Experimental Properties

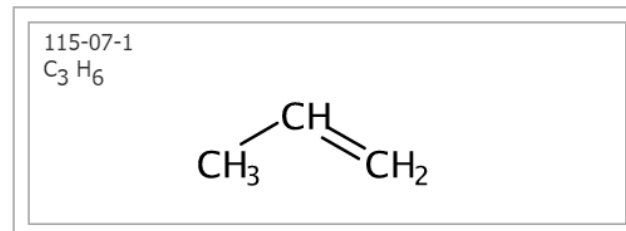
Polyamide

3. 9003-07-0

~209764



~33



$(C_3H_6)_x$

1-Propene, homopolymer

### Key Physical Properties

Regulatory Information

Spectra

Experimental Properties

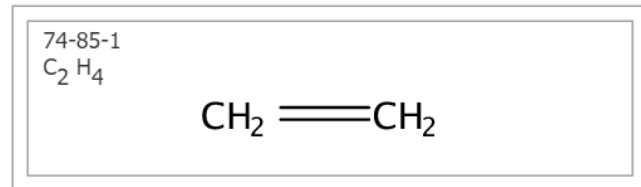
Polyolefin

4. 9002-88-4

~326124



~112



$(C_2H_4)_x$

Ethene, homopolymer

### Key Physical Properties

Regulatory Information

Spectra

Experimental Properties

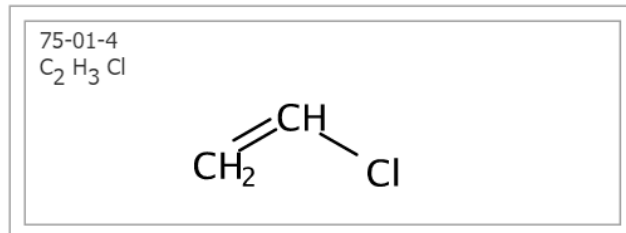
Polyolefin

5. 9002-86-2

~161603



~47



$(C_2H_3Cl)_x$

Ethene, chloro-, homopolymer

### Key Physical Properties

Regulatory Information

Spectra

Experimental Properties

Chloropolymer, Polyvinyl

# 限縮台灣發表的文獻，查看研究方向：

## 台灣主要的研究類型有：

- 塑膠加工與用途
- 紡織品與纖維
- 人造橡膠與天然橡膠
- 塑膠製造與加工
- 陶瓷

Opened saved answer set "textile of sporting of materia..." (2003) : refine "Taiwan" (49)

REFERENCES ?

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Sort by: Accession Number

0 of 49 References Selected

Analyze by: CA Section Title

Plastics Fabrication and Uses 23

Textiles and Fibers 14

Synthetic Elastomers and Natural Rubber 7

Plastics Manufacture and Processing 3

Ceramics 2

Show More

1. **Automatic inside-mold coloring method for stitches on cover of molded baseball or softball**  
Quick View PATENTPAK  
By Chen, Shyi-Ming  
From U.S. Pat. Appl. Publ. (2016), US 20160185015 A1 20160630. | Language: English, Database: CAPLUS
2. **Fabric for water sports garment**  
Quick View PATENTPAK  
By Shiue, Min-Chen  
From U.S. Pat. Appl. Publ. (2016), US 20160128406 A1 20160512. | Language: English, Database: CAPLUS
3. **Continuously foamed diving suit fabric, and production method thereof**  
Quick View PATENTPAK  
By Hsu, Kuo-Lun; Hsu, Cheng-Chi; Peng, Chun-Wen  
From Faming Zhuanli Shenqing (2015), CN 105192960 A 20151230. | Language: Chinese, Database: CAPLUS
4. **Method for preparing environmentally friendly reduction cleaning ecological foam material and the prepared foam**  
Quick View PATENTPAK  
By Chia, Wei-Min  
From Faming Zhuanli Shenqing (2015), CN 104558768 A 20150429. | Language: Chinese, Database: CAPLUS
5. **Easily worn and removed water sports garment**  
Quick View PATENTPAK  
By Shiue, Heng-Wen  
From U.S. Pat. Appl. Publ. (2014), US 20140059748 A1 20140306. | Language: English, Database: CAPLUS

# 台灣發表的文獻中，限縮主題：

限縮 “運動用品” & “服裝”

Opened saved answer set "textile of sporting of materia..." (2003) > refine "Taiwan" (49) > keep analysis

REFERENCES ⓘ Get Substances Get Reactions Get Related Citations Tools Create Key Posted Ale

Analyze Refine Categorize Sort by: Accession Number ↓

0 of 40 References Selected

Analyze by: ⓘ  
Company-Organization

Taiwan 19  
Shei Chung Hsin Ind Co Ltd, Taiwan 4  
Feng Chia University, Taiwan 2  
The Industrial Technology Research Institute, Taiwan 2  
An Yun, Taiwan 1  
Chen Chia Liang, Taiwan 1  
Chu Li Min, Taiwan 1

1. Automatic inside-mold coloring method for stitches on cover of molded baseball or softball  
Quick View PATENTPAK  
By Chen, Shyi-Ming  
From U.S. Pat. Appl. Publ. (2016), US 20160185015 A1 20160630. | Language: English. Database: CAPLUS

2. Fabric for water sports garment  
Quick View PATENTPAK  
By Shiue, Min-Chen  
From U.S. Pat. Appl. Publ. (2016), US 20160128406 A1

3. Method for preparing environmentally friendly water sports garment  
Quick View PATENTPAK  
By Chia, Wei-Min  
From Faming Zhuanli Shenqing (2015), CN 10455876 A

4. Easily worn and removed water sports garment  
Quick View PATENTPAK  
By Shiue, Heng-Wen  
From U.S. Pat. Appl. Publ. (2014), US 20140059748 A1

了解有哪些研發單位與公司

- Taiwan
- Shei Chung Hsin Ind Co Ltd, Taiwan
- Feng Chia University, Taiwan
- The Industrial Technology Research Institute, Taiwan
- An Yun, Taiwan
- Chen Chia Liang, Taiwan
- Chu Li Min, Taiwan
- FRG Rubber Group Inc, Taiwan
- He One Industry Co Ltd, Taiwan
- Industrial Technology Research Institute, Taiwan
- Lin Chiang Chuan
- Liu Szu Yuan
- Nam Liong Enterprise Co Ltd, Taiwan
- O Itei, Taiwan
- Sanfang Chemical Industrial Co Ltd, Taiwan
- Shih Chin Hung, Taiwan



# 由台灣發表的文獻中，找出運動用品和服裝領域， 新的應用材料(新化學物質)：

25038-32-8	Page 8 in PATENTPAK
isoprene-styrene rubber, hydrogenated, block triblock, transparent film; method for manufg. balls with color impression	
Technical or engineered material use; Uses	
9003-55-8	Page 8 in PATENTPAK
694491-73-1D	Page 8 in PATENTPAK
styrene-butadiene rubber, transparent film; method for manufg. balls with color impression	
Technical or engineered material use; Uses	
694491-73-1	Page 8 in PATENTPAK
700836-36-8	Page 8 in PATENTPAK
Butadiene-styrene triblock copolymer	
Isoprene-styrene triblock copolymer	
transparent film; method for manufg. balls with color impression	
Technical or engineered material use; Uses	



## Key Substances in Patent

Search in SciFinder | View

Analyst Markup Locations  
(1)

page 8

### CAS RN 25038-32-8

Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene

Search in SciFinder | View

Analyst Markup Locations  
(1)

page 8

### CAS RN 700836-36-8

Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene, triblock

Search in SciFinder | View

Analyst Markup Locations  
(1)

page 8

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sewn, bonded, or vulcanized to fix to an outer surface of a ball that is manufactured with conventional processes. The properties of the materials for making the color film 11 and the transparent layer 10 are described as follows:

**[0034]** (1) The porous material having pores can be of a base material that is printable, such as paper, synthetic paper, fiber fabric, and plastic films. The plastic films are made of for example polyethylene, polypropylene, polyethylene terephthalate (PET), thermoplastic urethane (TPU), polyvinylchloride (PVC), and thermoplastic elastomer (TPE), but not limited thereto.

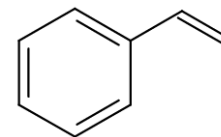
**[0035]** (2) The material for the transparent layer can be for example polyvinylchloride (PVC), styrene-butadiene-styrene copolymer (SBS), styrene-isoprene-styrene copolymer (SIS), styrene-ethylene-butylene-styrene copolymer (SEBS), styrene-ethylene-propylene-styrene copolymer (SEPS), polyolefin elastomer (POE), ethylene-propylene rubber (EPR), ethylene-propylene-diene rubber (EPDM), butadiene rubber (BR), solution styrene-butadiene rubber (SBR), isoprene rubber (IR), and polyurethane rubber (CUR), but not limited thereto. If the transparent layer needs vulcanization, then peroxides or cross-linking resin can be added as bridging agent or cross-linking agent before the combining operation starts. The peroxides that are used here can be for example di cumyl peroxide (DCP), benzo peroxide (BPO), and methyl ethyl ketone peroxide (MEKPO), but not limited thereto and the quantity of the peroxides added is around 0.1-8 phr (parts per hundred resin).

**[0036]** It will be understood that each of the elements described above, or two or more together may also find a useful application in other types of methods differing from the type described above.

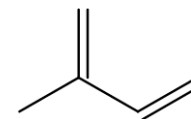
**[0037]** While certain novel features of this invention have

## Polyolefin, Polystyrene

100-42-5  
 $C_8H_8$



78-79-5  
 $C_5H_8$



$(C_8H_8 \cdot C_5H_8)_x$

Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene, triblock

### Experimental Properties

the transparent layer on the color film and using a die of an ultrasonic processing device to heat and pressurize the material to bond to the color film by an ultrasonic processing device.

5. The method as claimed in claim 1, wherein the step for making the color film comprises printing the pattern on the porous material by offset printing.

6. The method as claimed in claim 1, wherein the step for making the color film comprises printing the pattern on the porous material by gravure printing.

7. The method as claimed in claim 2, wherein a mold is used to injection-mold the transparent layer, a pattern being formed on a surface of the mold engageable with the transparent layer.

8. The method as claimed in claim 4, wherein the die of the ultrasonic processing device is formed with a pattern on a surface thereof engageable with the transparent layer.

9. The method as claimed in claim 1, wherein the porous material for making the color film is selected from a group consisting of paper, synthetic paper, fiber fabric, and plastic.



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## 許傳奇 許佳儒

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