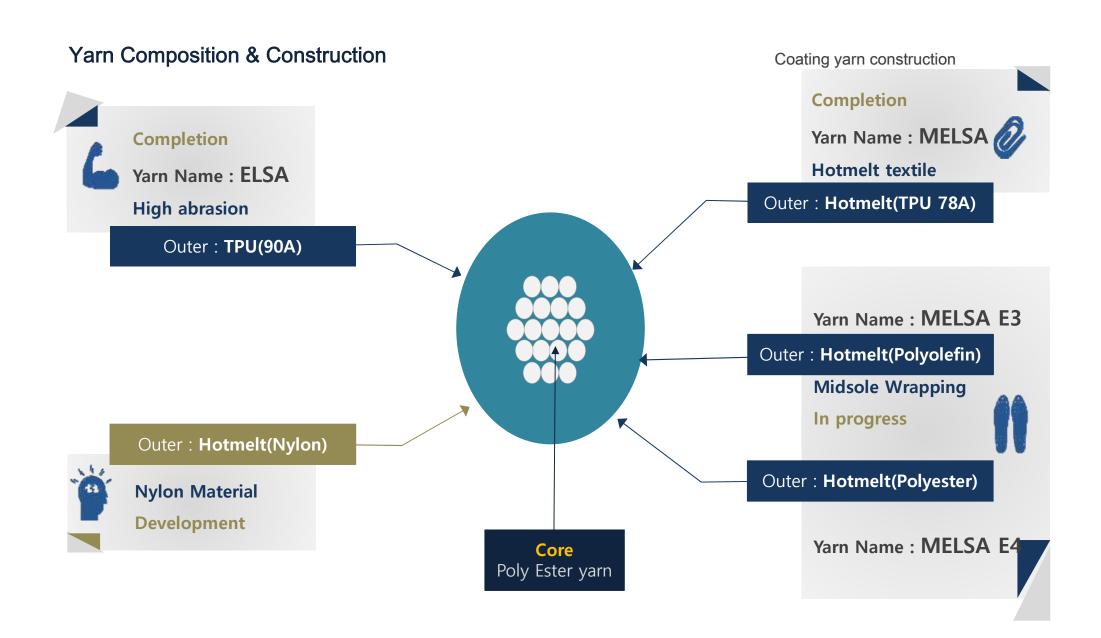


New Textile Concept developed



## INDEX

- 01 Hotmelt coating yarn(fusing yarn)
- 02 Hyper tex spider
- Application example
- 03 Hyper tex line(optical illusion)
- 04 Hyper tex line 2 & hide
- 05 SOP



## Different key function

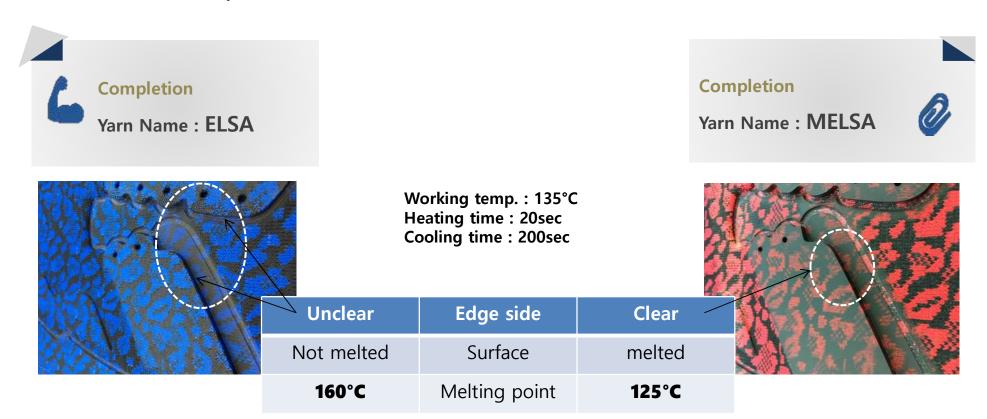




Elsa (TPU yarn)		Melsa (HotMelt yarn)
No	Adhesive function	Yes
Yes	Need to other glue	No
Stiff	Touch	Soft
Good	Abrasion	Good

Melsa has multi function.

## Elsa and Melsa Comparison



Melsa can be molded in the lower temperature than Elsa. Which means not damaging other materials.

## **Textile Construction Range**



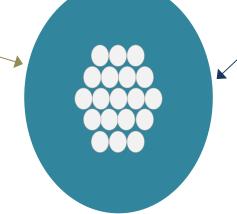
## Completion

Yarn Name: ELSA

**High abrasion** 

Elsa: Only used on surface





Coating yarn construction

## Completion

Yarn Name : MELSA

Hotmelt textile

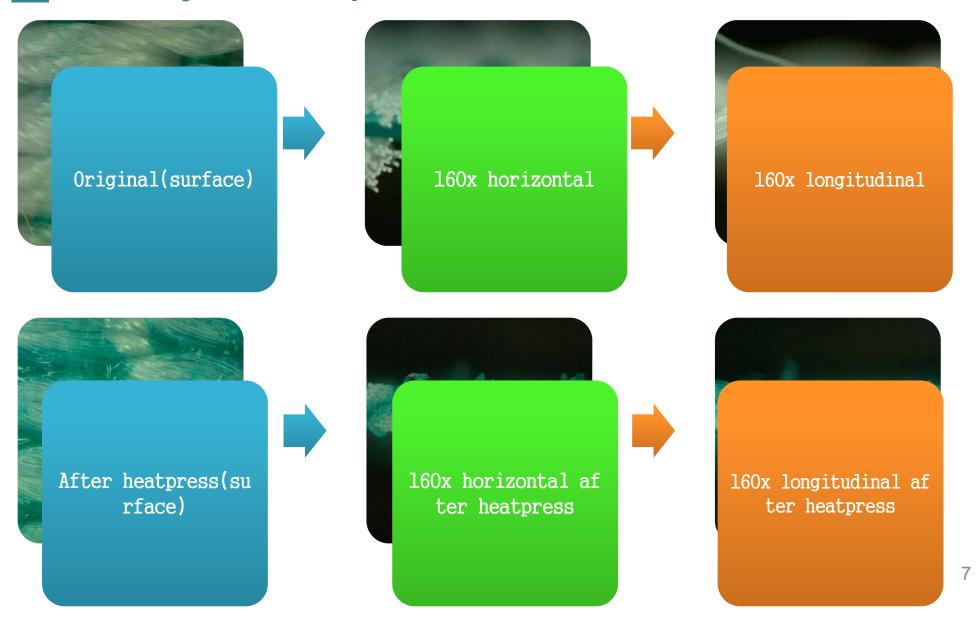
Melsa : Top, bottom and ins ide are available





After heat pressing, the adhesive moves to the surface or the backside.

# Shots by microscope





## **Hypertex**



## What is Hyper tex?



Poly yarn and Hotmel 
t coated yarn

Flat knitting Fabric made in rolls.



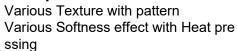
Hide Hotmelt yarn between Two layer fabric by Poly yarn



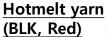


Composition
 Flat knitting fabric with Poly 150D
 and Hotmelt adhesive coated yarn









Poly yarn

(WHT)





### Various effect after Heat Press by mold

Toe cap







### Strong Point

High ultimate tensile strength Create various pattern & physical just heat press with pattern mold, High abrasion at heat pressed part

Weak PointStiff at Heat pressed part

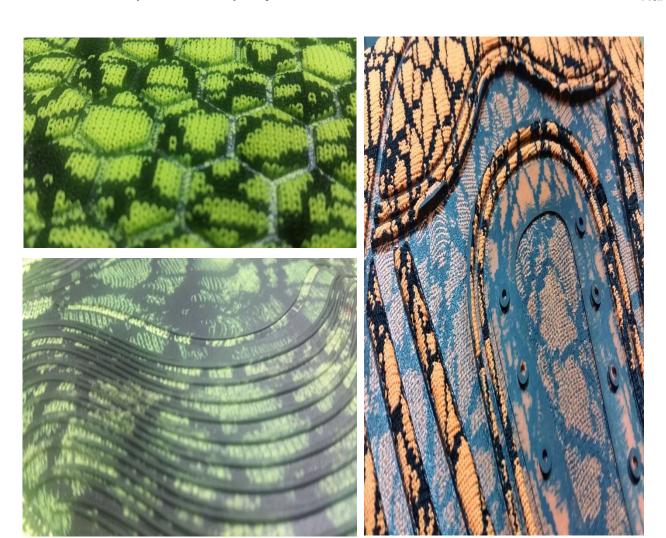


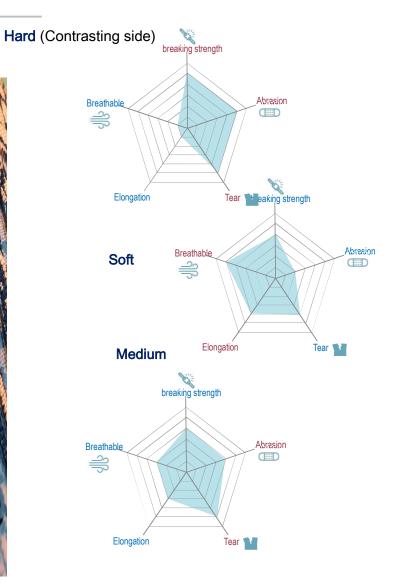
1.0~1.3mm x max 60"



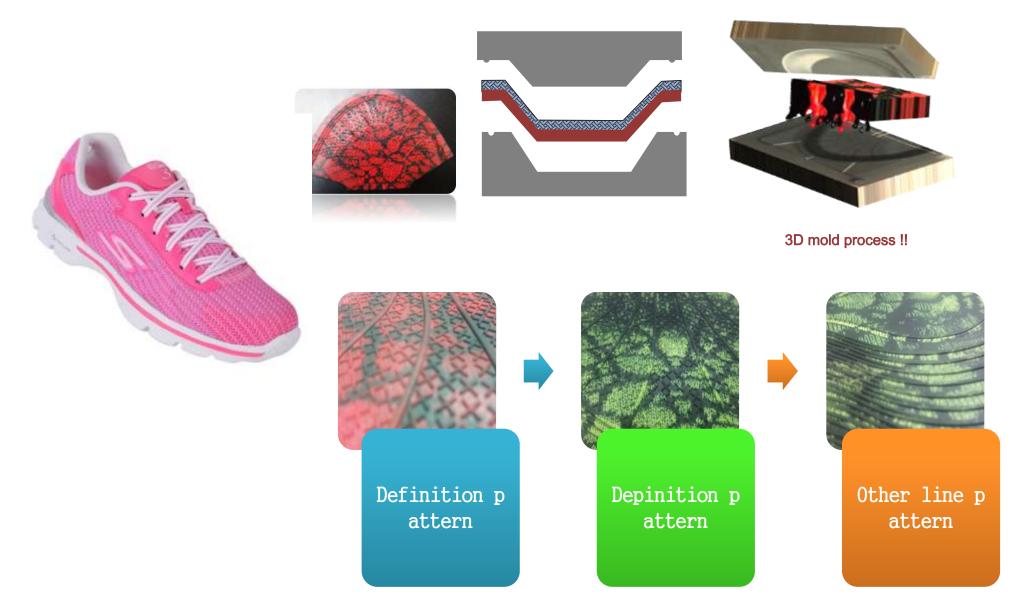
# **Hypertex Spider**

**Concepts and Property** 





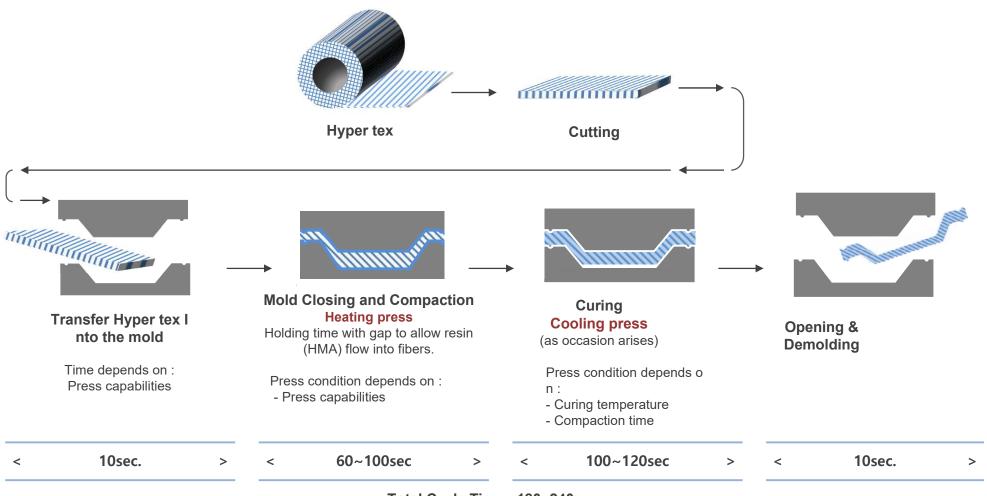
## **Hypertex 3D –toe cap (shall pattern)**



## **Developed 3D pattern**



## **How to mold Hypertex 3D?**



Total Cycle Time: 180~240sec.



## **HyperTex Line**

### Hyper tex line with optical illusion

#### Flat knitting machine

Hotmelt coated yarn a nd Poly yarn

Repeat pattern with emboss mold

## Optical illusion by heat pressing

or

Normal heat press machine

Oil press machine



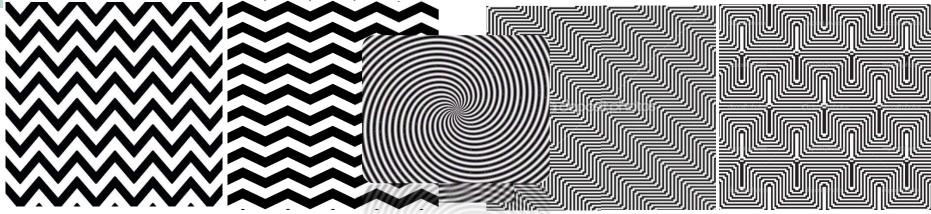








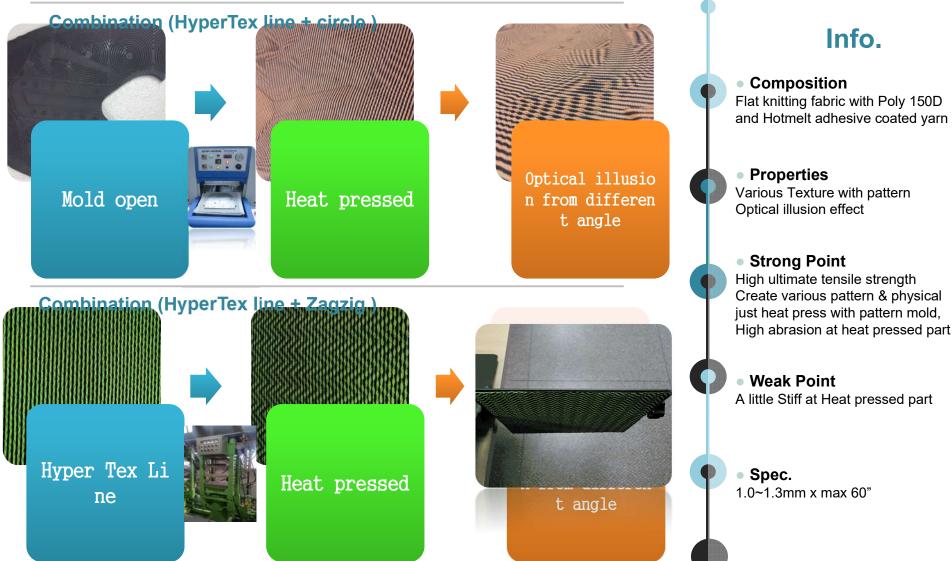
### Patterns for optical illusion



For better effect, we recommend as following

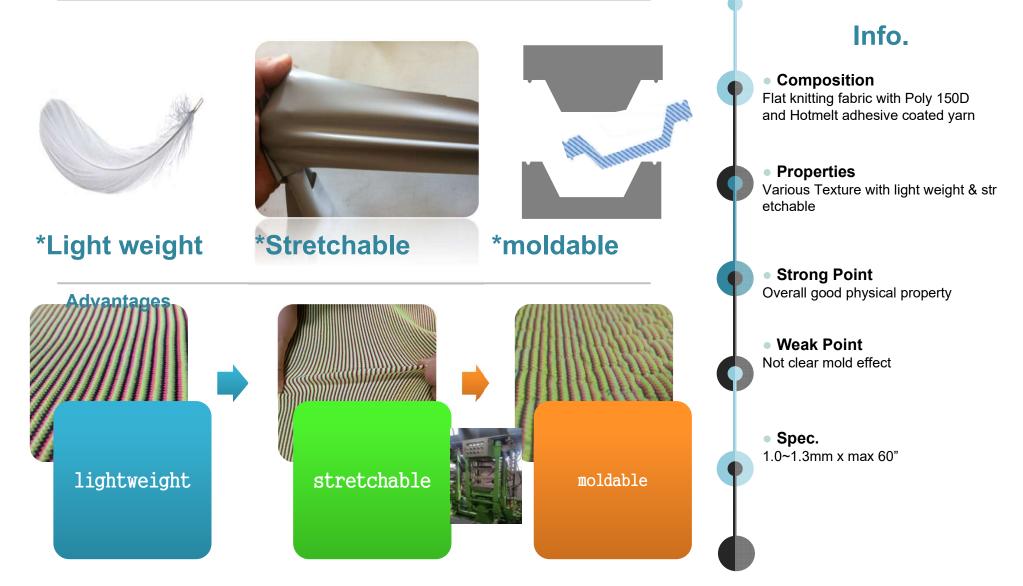
- 1. The pattern should be repeated.
- 2. the thin line is better than thick
- 3. Curved, wavy, zigzag would be greater than straight, broken line

## HyperTex application example





## **HyperTex line 2**



## **HyperTex SOP**

### normal heat-press machine & hydraulic press for general patte







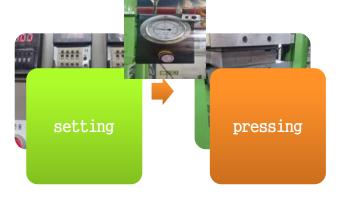




## hydraulic press machine (2D & 3D)















## Info.

#### machine & mold

Either normal heat press machine or oil press machine.

\*Male mold

#### working condition(N'press)

Heating: 140C~150, 300sec±50sec Cooling: 20~30C, 100±20sec

Pressure: 50~70kg

#### N.B

TF coating on mold is necessary
The working condition might be differe
nt from f'ty facility.

## Info.

#### machine & mold

Only hydraulic press machine \*male + female mold

#### working condition(O'press)

Heating: 150~160C, 100sec±20sec Cooling: 20~30C, 120sec±30sec

Pressure: 80~90kg

#### N.B

plastic effect depends on mold design such as mold depth, pattern size. The products might be distorted due t o not enough cooling. THE

Thank you

END