# Unisel

unisel®

TEIJIN
Human Chemistry, Human Solutions

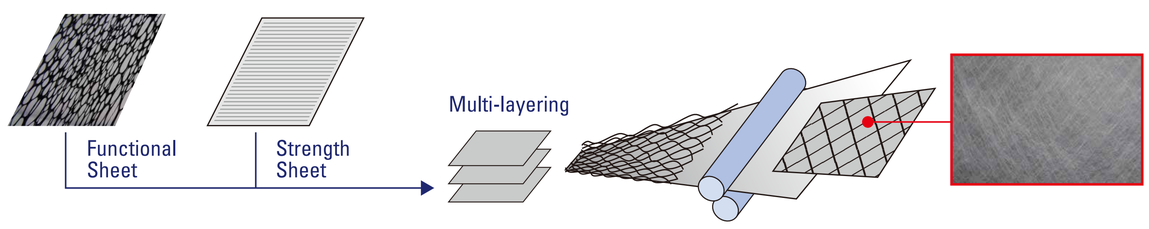
## World's only manufacturing method

Unisel is the world's only filament nonwoven fabric produced using the proprietary nonwoven fabric manufacturing methods developed by Teijin.

## Unisel® manufacturing method in the applications

### Multi-layering and stretch-expanding

Many layers be stacked with two types of sheets, it is pressed with a flat roller.




## Feature of Unisel®

### ● Non-dusting / Fibrous Free

Unisel® is filament non-woven and it is non-dusting material.

### ● Durable

Our only one manufacturing method gives unique structure.
It has multiple layers and the fiber is running as “X” direction.
It gives good durability both MD and CD.

### ● Soft and very smooth surface

We don’t use emboss in the manufacturing process. Therefore, Unisel® has very smooth surface. It gives great print ability and softness.

### ● Great Heatsealability

Unisel® is made from 2 kinds of raw materials. (PET/PP)
Because of very flat surfaces and PP layers, our non-woven has great Heatsealability and Heatseal strength.

These features makes heat sealing process speed-up and achieve efficient production.

### ● USP661.1

Unisel® fulfill USP661.1.

**MELFIT**

| Products code | Weight | Tensile Strength | Tear Strength | Air permeability | Heatseal strength |
|---|---|---|---|---|---|
| | gms/Sqm | MD/CD (N/5cm) | MD/CD (N) | $cm^3/cm^2.sec$ | N |
| BT030EW | 30 | 55/65 | 45/45 | 90 | 20 |
| BT040EW | 40 | 80/90 | 65/60 | 70 | 25 |
| BT050EW | 50 | 110/130 | 80/75 | 30 | 45 |
| BT060EW | 60 | 135/175 | 90/85 | 15 | 60 |
| BT070EW | 70 | 145/180 | 90/85 | 10 | 65 |

### Multi-layering and stretch-expanding

The stacked in multilayer structure different materials.

### Clear printability

Expression of smooth sheet surface.

**https://www.unisel.co.jp/en/**

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