AFEL

Advanced Films Specialist





Company profile

AFEL

Established in 1973, AFEL has emerged as the leader in the soft film market and has been recommended to promising SMEs and exporters from Small Business Corporation, based upon joint efforts of all employees.

Vision

As a corporation built on trust, fundamentals and responsibility while valuing people and the environment, AFEL strives to provide outstanding quality.

With these principles firmly in mind, AFEL will continue to grow as a company with relentless drive for perfection and strong work ethics.

State-of-the-art & eco-friendly technology

AFEL Organization chart

CEO

Sales part	Management part	Production part	Quality control part
Domestic sales team	Personnel management team	Production team A	Quality control team
Overseas sales team	Finance & Accounting team	Production team B	
		Production team C	
		Production team D	
		Production management	

AFEL History

History

1973-02-09 | Incorporation of ASUNG Chemical Co., Ltd
1984-05-26 | relocating and building Banwol Industrial Complex (A house lot 3323.3㎡, Building 1157㎡)
1988-10-21 | Extension of factory (436.9㎡)
1990-10-30 | Investment corporation
1995-05-01 | Selection of promising small business
1998-03-23 | Selection of promising small business with exports
2003-05-30 | Establishment of production facility (TPU film, sheet)
2010-02-05 | Certificate acquisition of R&D Promotion Division
2011-03-09 | Certificate acquisition of Quality management system ISO 9001
2011-04-26 | rename company AFEL Inc.
2012-02-09 | Sung Jae Min was newly appointed as CEO
2016-02-10 | Cleanroom set up
2021-03-31 | Certificate acquisition of Quality management system ISO 14001

Thermoplastic polyurethane film

AFEL Inc.

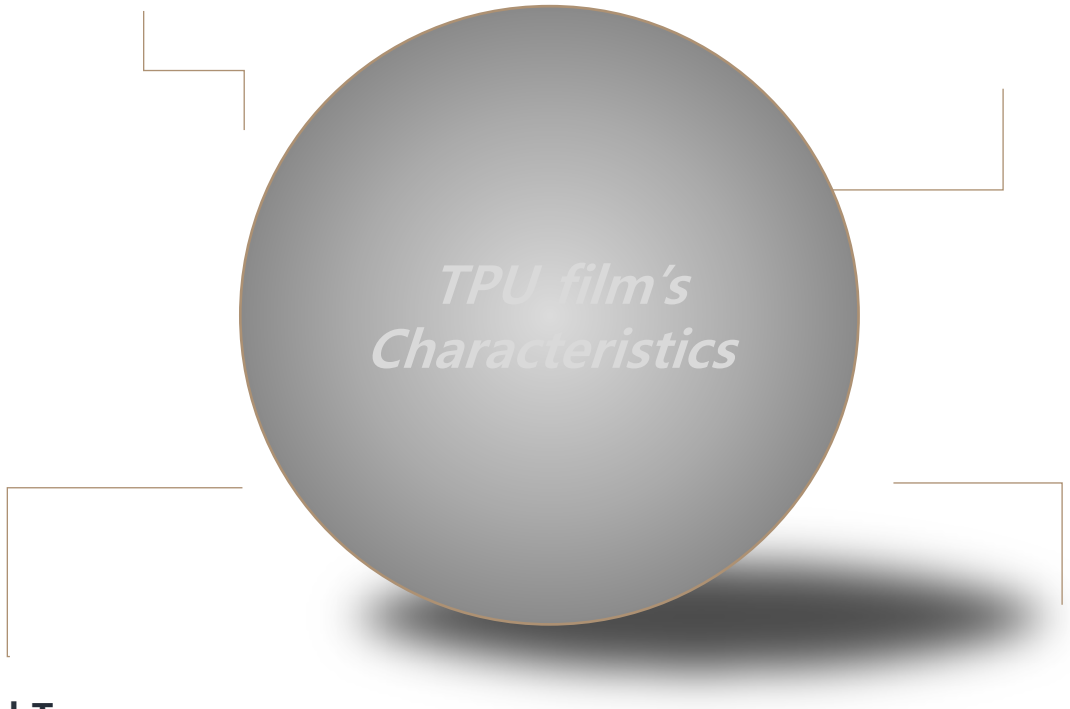
Environment-friendly technology

What it TPU?

Thermoplastic polyurethane (TPU) is a unique category of plastic created when a polyaddition reaction occurs between a diisocyanate and one or more diols.

- **Exceptional mechanical property**
- **Good chemical resistance**
- **Low temperature resistance**
- **Good work with welding & printing**
- **Very good resistance to abrasion**

- **RoHS & REACH compliance**
- **Environment-friendly material without six primary heavy metals**
- **Non-phthalate**



- **Good Transparency**
- **High Flexibility & Elasticity**
- **Easy to control the Softness**

- **Apply to various applications**

Advantage of AFEL's TPU film?

AFEL manufacturing team has extensive experience and is committed to working closely with our customers to deliver the highest quality films tailored for their needs and specifications. We continually invest in new technology, equipment, and talent and are always striving to improve our processes and TPU product.

- High transparency
- Good weatherability
- Excellent adhesive coating
- Good work to HF welding & printing
- Very good vacuum forming

- Thickness : 0.05mm~2.0mm(2mil~80mil)
- Width : MAX 1,560mm
- Hardness : Shore 65A ~ 95A, Shore D
- Able to laminate with any fabric or release film
- Any color is possible

Capability
100 tons

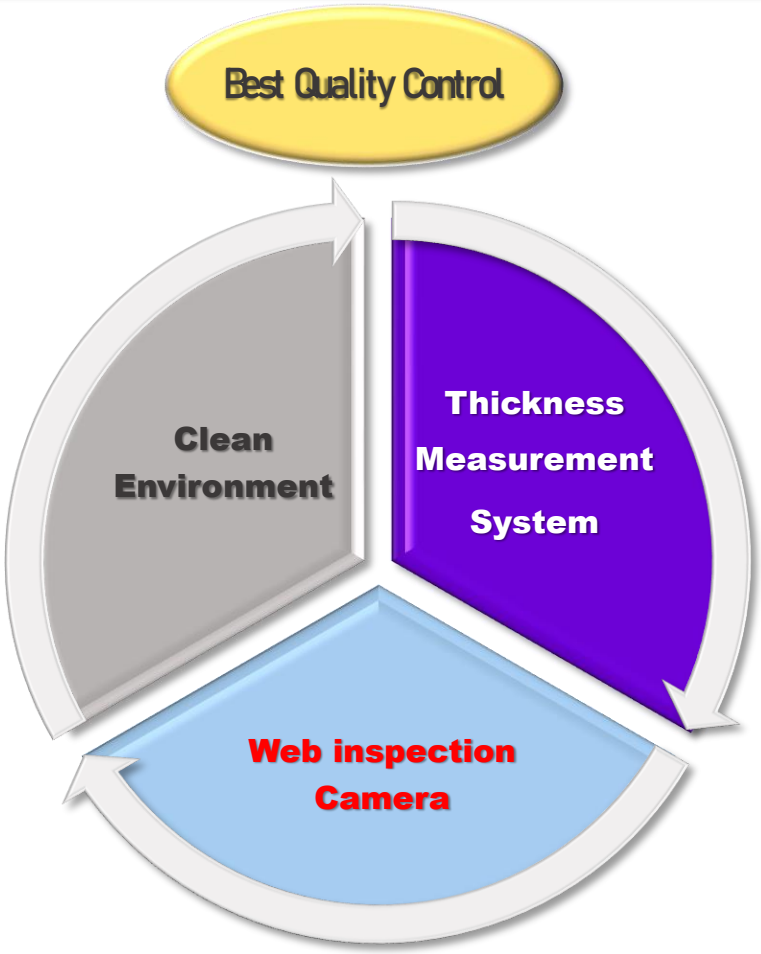
- RoHS & REACH compliance
- Approved FDA certification
- Approved NSF certification

- Yellowing & Non-yellowing
- Polyester based TPU
- Polyether based TPU
- Polycaprolactone TPU

Manufacturing line

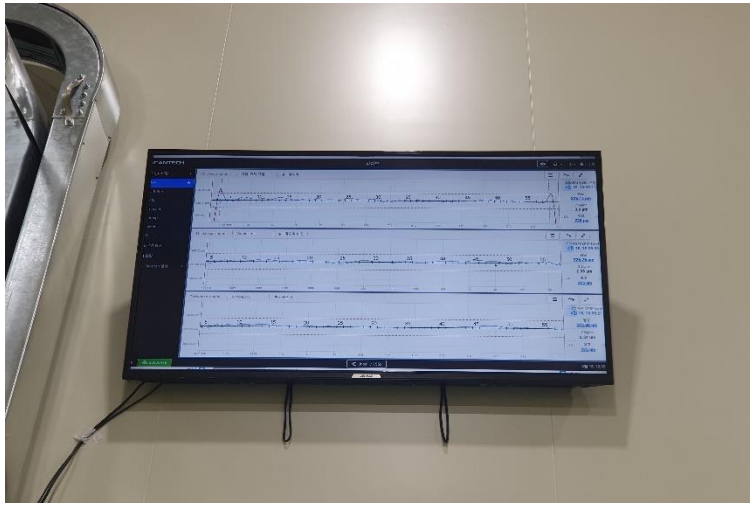






★ AFEL's quality management system has complied with and been certified to the ISO 9001/14001 standard





Products

General TPU film

Our TPU film is designed to meet demanding applications

Astromer®

- **G series, T series**
- Good HF welding, Sawing, Printing
- Good transparency
- High performance mechanical properties
- Good hydrolysis resistance
- Laminated fabric, paper
- Various color TPU films

Functional TPU film

AFEL can enhance the properties of a wide range of plastics and elastomers to improve transparency, strength, adhesion, anti-microbial and Flame-retardant.

Astromax®

- **F series, O series**
- Ultra high transparency
- Anti-microbial, Anti-virus TPU film
- Flame retardant TPU film, Hotmelt TPU film
- Non-yellowing TPU film(Aliphatic TPU)
- Anti-static TPU film
- Low hardness, High elastomeric TPU film

Specialty film

We offer solutions that turn product ideas into reality and supply highly value-added materials

Sonomer®

- **SO - A series, P series**
- Ultra high transparency
- Good wettability, Good UV printing
- Lower Elastomeric
- Various hardness

BIO based film

AFEL gives an efforts in sustainable business practices and carbon neutrality within all areas of the company.

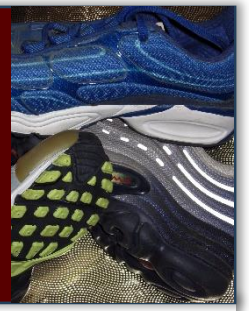
Green Technology

ECO Friendly

- **B series**
- Lower CO2, Eco-friendly
- Flexible Bio-degradable film
- Bio–mass TPU film
- Good sealing

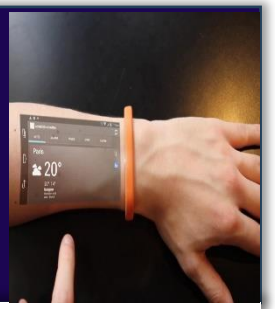
Applications

Sports & Leisure



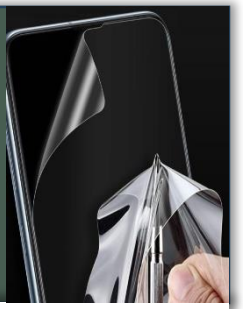
- Air mattress
- HF welding products
- Fabric laminating
- Flexible packaging
- Flexible water bottle
- Aprons
- Rain coats
- Inflatable products
- Tent clear window
- Hotmelt TPU film
- Printing solution

Medical & Health care



- Medical device packaging
- Medical band
- Medical pillow
- Anti-microbial products
- Anti-Virus products
- Breathable skin
- Air cell
- Cosmetic pouch
- Medical wearable device

Electronic & Construction



- Mobile protection
- Digital printing
- EMI/ESD shield
- Surface protection
- Waterproof membrane
- Decorative interior skin
- Flexible water/oil tank
- Construction tape

Applications

Automotive



- Door trim
- Car seat skin
- Lumbar support
- Interior components
- Dashboard
- Display protection
- Electronic insulation
- Printing solution

Aliphatic TPU



- Paint protection film(PPF)
- Aerospace protection
- Outdoor decoration
- Outdoor roof membrane
- Glass interlayer film
- Outdoor surface protection

Bio & Specialty



- Bio-degradability
- Bio-mass TPU
- Food packaging
- Disposable bag

Research & Development

We are enlarging our business field and item by diversifying engineering film and development, and we are developing high skilled/quality film material which can lead the market trend. We are enlarging our R&D ability toward vehicle, energy and electronics field.

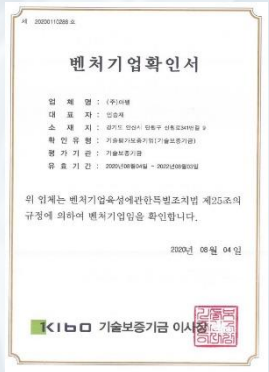


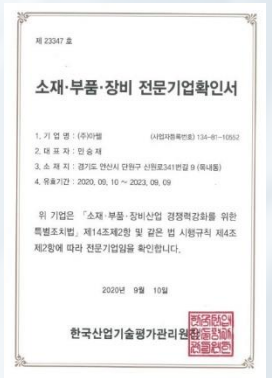
CERTIFICATIONS











Research & Development



Thermo-hygrostat



UTM



QUV tester



Microscope



Melt Flow Indexer



Moisture Analyzer



Specific gravity meter



Transmission meter



Gloss meter



Colorimeter

Overseas export



Yours faithfully



We will do our best to meet your requirement.

ISO 9001

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