

ANTI-STATIC TPU FILM

An anti-static thermoplastic polyurethane (TPU) sheet designed to prevent the buildup of static electricity.

AFEL SOLUTION

Custom Dimensions

Thickness: 0.1-1.0mm
Width: 1000-1500mm

Can be fully customized for your application.

Appearance Options

Standard: Translucent
Custom: Any color

Safety Certified

Certified:
ISO 9001, ISO 14001
RoHS & REACH Compliance

Key Performance Advantages

- Reliable Anti-Static Performance**
Typically ranges from $10^8-10^{10}\Omega/\text{sq}$ (ASTM), allowing safe dissipation of electrostatic charges (ESD).
- Environmental Stability**
Performs consistently in both dry and humid conditions without losing anti-static properties.
- Strong Durability & Flexibility**
Offers high tear resistance, flexibility, and abrasion resistance.

Key Applications

Microchips & Semiconductor Packaging
LED Display & Screen Protection
Cleanroom Partition Curtains
Surgical Tool Enclosures
Medical Device Screens, ESD & EMI

Certifications & Processing

ISO 9001 ISO 14001
ESD Permanent Safe RoHS & REACH
Thermoforming High-Freq Welding



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Physical Properties

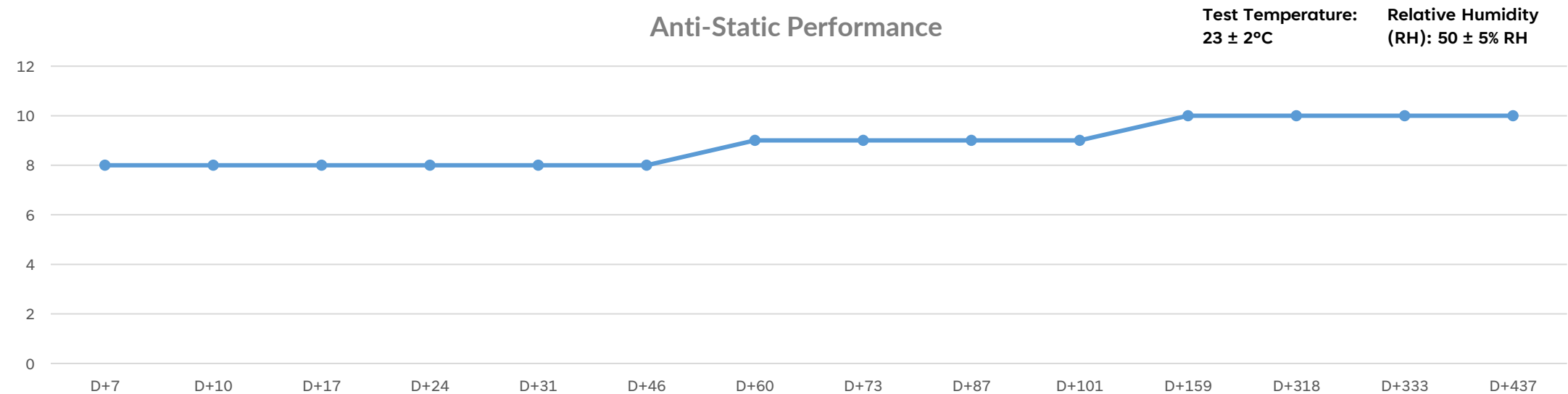
Thickness: 0.25mm			
Properties	Test Method	Unit	Results
Color	Semi-Transparent		
Hardness	ASTM D2240 A	Shore D	85
Tensile Strength	ASTM D 412	MPa	MD 63.8 TD 64.7
Tear Strength	ASTM D 1004	MPa	MD 7.4 TD 7.3
Elongation	ASTM D 412	%	MD 530 TD 520
Modulud at 100%	ASTM D 412	MPa	MD 7.6 TD 7.8
Modulud at 300%	ASTM D 412	MPa	MD 14.8 TD 14.1
Surface Resistivity	ASTM D257	Ω/sq	10^9-10^{10}

* There are typical values and should not be used for establishing specifications

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Anti-Static TPU Degradation Monitoring Record

Tickness	D+7	D+10	D+17	D+24	D+31	D+46	D+60	D+73	D+87	D+101	D+159	D+318	D+333	D+437
250	8	8	8	8	8	8	9	9	9	9	10	10	10	10



The **long-term anti-static stability** of our TPU film over a monitoring period extending past 300 days. Initially demonstrating strong anti-static performance, the film maintains a **gradual and controlled decline** with no abrupt fluctuations.

The data highlights the **reliability, durability, and consistency** of our anti-static TPU film, ensuring stable performance for applications that require sustained electrostatic control over time.