

Rev.1 (2022.04.29)

DECO SHEET Specification

1. SCOPE

This specification describes the quality and test standards for **hard type anti-fingerprint products** among GAG PET DECO Sheets (BELITAPET) manufactured by KP Tech.

2. GENERAL SPECIFICATION

2-1. Dimension

ltem	Unit	Spec.	Tolerence
Thickness	mm	Min.0.2 / Max.0.8	+5% -0%
Width	mm	Max. 1500	+5mm -0mm
Roll diameter	mm	Max. 600	-
Core diameter	mm	152	-

The roll diameter can be changed on customer's request.

3. PHYSICAL SPECIFICATION

- 3-1. Color Consistency
- 1) Test condition
 - Equipment: CM-2600D
 - Peocedure: Place Specimen on the white plate and measure with a standard light source D65 with a colorimeter.



2) Specification

ltem	ΔE*ab
White color	0.5
Other colors	0.8

3-2. Gloss level

Item	Spec.	Angle	Test method
Anti Finger Print	3.0 ± 2.0	60°	ASTM D 523
(hard type)	5.0 ± 2.0	60	ASTIVI D 323

3-3. Scratch resistance

Item	Spec.	Load	Test method
Anti Finger Print	H~2H	250g	ASTM D 3363
(hard type)	Π∼∠Π	230g	A311VI D 3303

3-4. Top coating adhesion

This test method is in accordance with ASTM D 3359 A.

1) Test condition

- Equipment : Cross hatcher , 3M magic tape
- Procedure: An X-cut is made on the film, Specified tape is applied over the cut and then removed, and Inspect the X-cut area for removal of coating from the substrate.

2) Specification

- Peeling should not be observed.



3-5. Light Fastness

This test method is in accordance with DIN EN ISO 4892-2:2006(method A).

Item	Exposure	ΔE*ab
White color	400hrs	1.0
Other colors	400hrs	1.5

3-6. Surface resistance

This test method is in accordance with EN 12720: 2009

Staining agents	Contact time	Spec.	
Staining agents	Contact time	Anti Finger Print	
Water	24hrs	5	
liquid paraffin	24hrs	5	
Ethanol (48%)	1hr	5	
Coffee	1hr	5	

Ratings:

- 5 = no change
- 4 = minor change (only visible under reflected light)
- 3 = moderate change (visible from several viewing directions)
- 2 = significant change in colour or gloss; slight change of structure (swelling, fibre raising, cracking, blistering)
- 1= strong change

3-7. Anti-finger print function

This test method is in accordance with own standard

- 1) Apply an appropriate amount of artificial sebum to your thumb.
- 2) Apply the applied artificial sebum to the sheet.
- 3) After 30 seconds, wipe with a wiper and check visually.



Item	Staining agents	Spec.	Test method
Anti Finger Print	Artificial Sebum	Е	In house
(hard type)	Artificial Sebum	5	In house

Ratings:

- 5 = no change
- 4 = minor change (only visible under reflected light)
- 3 = moderate change (visible from several viewing directions)
- 2 = significant change in colour or gloss; slight change of structure (swelling, fibre raising, cracking, blistering)
- 1= strong change

4. APPEARANCE

4-1 In-Process Inspection

During production of rolls, large size defects and periodic defects are detected.

4-2. Product inspection

1) Inspection method

Inspect the full width of about 1~2 meters for each roll. Samples are inspected at 1000Lux over.

2) Specification

Spec.	Remark
Not allowed	
Not allowed	
Max.0.2mm/3ea allowed	
Not allowed	
	Not allowed Not allowed Max.0.2mm/3ea allowed



5. Packing

- 1) Each roll is sealed with paper laminated with PE form.
- 2) Stand vertically on a wooden pallet and seal with a stretch film.
- 3) Label marking
 - Product
 - Color
 - Lot no
 - Dimension (thickness/width/ Linear meter)
 - Manufacturer