

Rev.1 (2021.05.17)

DECO SHEET Specification

1. SCOPE

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

2. GENERAL SPECIFICATION

2-1. Dimension

Item	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

Item	ΔE*ab
White color	0.5
Other colors	0.8

3-2. Gloss level

Item	Spec.	Angle	Test method
High Glossy	88 ↑	60°	ASTM D 523
(hard type)	00	00	ASTIVI D 525

3-3. Scratch resistance

ltem	Spec.	Load	Test method
High Glossy	E	250g	ASTM D 3363
(hard type)	Г	2.50g	ASTIVI 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).

ltem	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 agants	Contact time	Spec.
Staining agents	Contact time	High Glossy
Water	24hrs	5
liquid paraffin	24hrs	5
Ethanol (48%)	1hr	5
Coffee	1hr	5

Ratings:

- 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.

^{5 =} no change

^{4 =} minor change (only visible under reflected light)



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

Item	Spec.	Remark
Black speck	Not allowed	
TD, MD line	Not allowed	
Dent/Spot/Foreign material	Max.0.2mm/3ea allowed	
Scratch	Not 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