

TECHNICAL DATA SHEET & DECLARATION OF COMPLIANCE

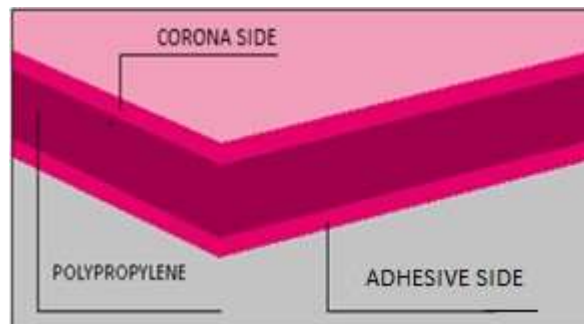
Art. 023971 Thermoseal BOPP gloss

Profile:

- Extrusion-coated biaxially oriented polypropylene gloss film with a low temperature melting adhesive resin on one-side for thermal lamination of film to paper products by heat and pressure.

Features:

- Good optical properties
- Good machinability
- Good Fiber tear bond strength to paper
- Good resistance to elongation & tear
- Suitable for printing, UV Varnishing, hot foil stamping & gluing (initial tests prior to actual job are recommended).



Applications:

- Thermal lamination with all kinds of printed & unprinted paper and paperboards such as book covers, posters, magazines, boxes, paper bags menu cards, diaries, etc.

TYPICAL PROPERTIES ± 3%	UNIT	TEST MEASUREMENT	VALUES
Thickness	µm	ASTM D 374	25.5
Unit Weight	g/m ²	internal	23.4
Yield	M ² /kg	ASTM D 4321	42.74
Density	g/cc	internal	0.91
Gloss (45°) ~ (60°) film side	%	ASTM D 2457	58 ~ 95
Surface tension film side / adhesive side	Dynes/cm	ASTM D 2578	39 ~ 42
Coefficient of friction (Kinetic)	film / film	internal	0.2 > 0.25
Recommended laminating temperature	°C	internal	95 ~ 120

Storage conditions: For best film performance, keep in film in dry, clean location. Preferably wrapped in plastic or packed in a carton box. Store film at room temperatures between 18 ~ 25°C and 40% relatively normal humidity and keep away from heat sources & direct sunlight.

Disclaimer: The producer bases the information provided above on conclusive tests, these values are test results, which are indicative only and provided as guidelines.

The aforementioned data are given most conscientiously but without any obligation. Any processing details are provided merely for guidance, it is the user's responsibility to check the suitability of the product for the intended application.

Note! Changes made to the film's original identity such as: applying a surface coating or extrusion coating. This is done at the customer's own risk, it is the customer's responsibility to check the film is suitable before a surface coating or extrusion coating is to be done. Claims cannot be accepted after the film has been surface coated or extrusion coated.

Warranty: This product has a warranty of 180 days from the date on the invoice; claims after 180 days from the date on the invoice cannot be accepted. Please always keep the full label details of the film available for warranty purposes, without full label details claims cannot be handled or accepted.

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DECLARATION OF COMPLIANCE

The manufacturer / producer of the TK25 GL GLOSS film type has confirmed that this film is manufactured in compliance with;

- A.** Commission Regulation (EU) N° 10/2011 of the 14th January 2011 on plastic materials and articles intended to come into contact with food, (with all amendments: Commission Regulation (EU) N° 321/2011; Commission Regulation (EU) N° 1282/2011; Commission Regulation (EU) N° 1183/2012; Commission Regulation (EU) N° 202/2014; Commission Regulation (EU) N° 174/2015; Commission Regulation (EU) N° 1416/2016, 752/2017 complied. Commission Regulation (EU) N° 79/2018, Commission Regulation (EU) N°213/2018 complied, Commission Regulation (EU) N° 831/2018 complied, Commission Regulation (EU) N° 37/2019, Commission Regulation (EU) N° 1338/2019 and Commission Regulation (EU) N° 1245/2020.

Compliance with threshold values:

. Overall Migration Limits

Testing as per EU N° 10/2011

Stimulant used	Test Condition	Result (mg/dm ²)	Reporting Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
3% Acetic acid	10 days at 40°	Not detected	2.0	10
10%	C 10 days at	Not detected	2.0	10
Ethanol	40°C 10 days	Not detected	2.0	10
20%	at 40°C 10	Not detected	2.0	10
Ethanol	days at 40°C	Not detected	2.0	10
50% Ethanol	10 days at 40°	Not detected	2.0	10
Isooctane	C			

This film complies with overall migration limit for all type of foods.

. Specific Migration Limit (SML)

Name of Substance	CAS N°	(SML) Restriction Limit (mg/kg)
Homo-polymer	9003-07-0	No restriction
Copolymer	24937-78-8	No restriction
Silica	7631-86-9	No restriction

B. . Dual use additives

E-number E Substance
551 Silicon Dioxide (SiO₂)

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C. Compliance to Regulation EU 1935/2004:

The Manufacturer/Producer confirms that the plastic materials or articles, products from intermediate stages of manufacture or the substances meet the relevant requirements laid down in this Regulation and in Article 3, 11(5), 15 and 17 of Regulation (EC) N° 1935/2004

D. Compliance to Regulation 2023/2006:

This film type is manufactured in compliance with EU Regulation 2023/2006, Good manufacturing practice / GMP for materials, articles intended to come into contact with foodstuffs.

E. US FDA Compliance:

This film type is manufactured in compliance with US FDA CFR 177.1520 (Olefin Polymers).

F. REACH Compliance:

The Manufacture/Producer declares that this film type is manufactured in compliance with the REACH regulation (EC) N° 1907/2006. This film type fulfills all requirements of this regulation. This mentioned Bopp grade film type does not contain any "substances of very high concern" ("SVHC") which is updated every six months. Please request the separate updated REACH & SVHC Declaration for clarification.

G. GMO, Bisphenol A:

The Manufacturer/Producer confirms GMO (Genetically Modified Organisms) are not added to or in this film type. According to the information received from the suppliers the additives and PP homo-polymers, copolymers and coated material used for the production of this film type does not contain any Genetically Modified Organisms (GMO) and Bisphenol A.

H. EN 71-3, Migration of certain elements. (Safety of toys)

Heavy Metals and Halogens:

The raw materials used in the production of this film type, PP homo-polymer, PP co-polymer and master batches based on the mentioned resin do not contain heavy metals such as Cadmium, Hexavalent Chromium, Lead, Antimony, Nickel, Tin, Arsenic, PBB, PBDE, and Mercury as tested in this film type. Neither the said Heavy Metals, Halogens nor their compounds are intentionally added during the production of this film type, nor are they used, directly in the production process itself.

EN 71-9, Substances in a concentration above the threshold

(Organic chemical compounds).

I. EN-14582:2016 (Halogen Compliance):

Fluorine (F), Chlorine (Cl), Bromine (BR) and Iodine (I) the producer does not intentionally added to this film type. However, we have not tested this particular film type for halogens.

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J. ANIMAL FATS:

Animal fats are not intentionally used in the manufacturing process of this film.

K. ROHS:

Restriction of Hazardous Substances directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

L. DIRECTIVE 94/62 EC COMPLIANCE:

This film type contains less than 100 ppm by weight of the heavy metals: lead, mercury, cadmium, and hexavalent chromium. This film is in compliance with heavy metals requirements of the CONEG Model legislation and article II of the EU Directive 94-62-EC.

M. DIRECTIVE 2005/84 COMPLIANCE:

Directive 2005/84 relating to restrictions on the marketing and the use of certain dangerous substances and preparations (phthalates in toys and childcare articles), now included in annex XVII of the REACH Regulation. This film types does not contain any of the phthalates included in mentioned annex at concentrations above the applicable limits.

N. PERSISTENT ORGANIC POLLUTANTS (POPs) According to EU 2019/2012 recast EC 850/2004: The manufacturer / producer based on the knowledge of the raw materials and the fact that this substance is not intentionally added, it is not expected to be found in this film type. However, this film type is not tested for these substances.

O. COMPLIANCE TO ASTM F 963-17:

The manufacturer/producer declares that this film type complies to Standard ASTM F 963-17 soluble heavy metal for determining Soluble Lead (Pb), Soluble Antimony (Sb), Soluble Arsenic (As), Soluble Barium (Ba), Soluble Cadmium (Cd), Soluble Chromium (Cr), Soluble Mercury (Hg), Soluble Selenium (Se).

P. COMPLIANCE TO PUBLIC LAW 110-314 CONSUMER PRODUCT SAFETY IMPROVEMENT ACT 2008 (CPSIA):

This film type complies with, CPSIA section 101(a) (2) - Lead in accessible substrate materials and CPSIA section 108-Phthalates.

Q. CALIFORNIA PROPOSITION 65 COMPLIANCE:

The manufacturer/producer declares that this film type complies with California Proposition 65. During the production of this film type the manufacturer/producer does not use or intentionally incorporate into this film type any of the chemicals as restricted by the chemical list of Proposition 65 of the state of California and subsequent amendments, The current Proposition 65 list is dated March 19, 2021. The manufacturer/producer emphasizes that they do not test this film type for these substances, as they do not expect them to be present in this film type.

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R. PEOPLES REPUBLIC OF CHINA REGULATION COMPLIANCE:

The manufacturing process of this film type is in compliance with GB 31603-2015 National food safety standard on the general hygiene norms in the manufacture of food contact materials and articles.

This film type is in compliance with GB 4806.1-2016 General safety requirements standard for food contact materials and articles.

The resin used in this film type is in compliance with PRC standard GB 4806.6-2016 food contact plastic resin.

This film type is in compliance with PRC standard GB 4806.7-2016 food contact plastic material and product.

This film type is in compliance with PRC standard GB 9685-2016 standards for using of additives of food contact material and product.

S. ABSENCE OF SUBSTANCES AND CHEMICALS:

None of the following substances are used as additives or raw materials in the manufacture of this film type. However, as the manufacturer / producer does not systematically perform tests to verify the absence of these substances, there is no guarantee that there is no trace amount of these substances, as impurity or otherwise, in this film type.

● EPOXY DERIVATIVES:

BADGE [2,2-bis (4-hydroxyphenyl) Propane bis (2,3-epoxypropyl) ether],

BFDGE [bis (hydroxyphenyl) methane bis (2,3epoxypropyl) ether],

NOGE [novolacglycidyl ether] as defined in directive 2002/16/EC amended by 2004/12/EC, Repeated by the regulation 1895/2005/EC.

● ALLERGENS:

Food Allergens listed in annex II of regulation (EU) N° 1169/2011.

● FOOD ADDITIVES OR FLAVORINGS:

As defined in directive (EC) N°. 19/2004.

● PBT: (Persistent, bio-accumulative, toxic.)

● vPvB: (very persistent, very bio-accumulative.)

● MOSH AND MOAH: MOSH (mineral oil saturated hydrocarbons) and MOAH (mineral oil Aromatic hydrocarbons) are not intentionally added as raw materials or additives during the production of this film type.

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- **NANOPLASTICS:** This film type does not incorporate in this product any additive in nanoparticle form.
- **CONFLICT MINERALS:** This film type does not intentionally incorporate in its composition any of the metals tantalum, tin, gold and tungsten.
- **BISPHENOL A:** Commission implementing regulation (EU) 2018/213 of February 2018 amending regulation 10/2011.
- **BSE** (Bovine Spongiform Encephalopathy) / TSE

The absence of such substances has not been verified by analysis or tests and is declared based on the information available to us from the raw material suppliers. The info received from the raw material suppliers is info which they are legally obliged to share with their downstream users. It can therefore not be excluded that trace levels of these substances may be unintentionally present (amongst others because they may be ubiquitous in the environment), or may result from the specific characteristics of the raw materials or the manufacturing process. It is the responsibility of the recipient of this film type to ensure that any local applicable rules and legislation are observed.

- **BIOCIDES PRODUCTS:** This film type is not treated by these articles as defined in EU

Regulation 528/2012.

- **BORAX AND BORON COMPOUNDS**
- **CASEIN**

DISCLAIMER

The foregoing information given regarding this film type is provided to Ultralen in good faith by the producer / manufacturer of this film type; It is the customers responsibility to make their own determination and analysis that use of this film type is safe, lawful and technically suitable for their intended use. Since the conditions of use is beyond our control, Ultralen makes no warranties, express or imply and assume no liability with any use of this information.

19.11.2021