

enhance

enhance

## CSG

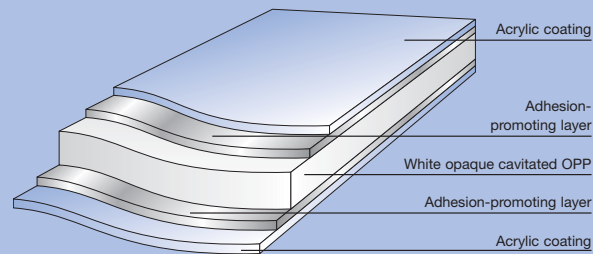
White opaque cavitated base OPP coated film for food packaging

- Excellent moisture, aroma and light barrier
- High yield
- Good convertibility



## TREOFAN PACKAGING FILM CSG

White opaque low-density OPP film, both sides coated with an aqueous acrylic lacquer



Treofan CSG has been especially designed for the food packaging industry. Treofan CSG, thanks to its wide operative window on all packaging machines, can be used for the most demanding applications; it is particularly recommended in OW, HFFS, VFFS applications. It can also be laminated to other coated (acrylic or high-barrier) films.

## PRODUCT FEATURES

Main properties:

- high yield
- excellent moisture, aroma and light barrier
- outstanding sealing properties
- easy machinability on all packaging machines
- excellent convertibility (printing, overcoating, lamination)
- full water-based coating

## APPLICATIONS AND PROCESSING

Treofan CSG can be used for packaging of bakery, biscuits, confectionery and all sensitive products which need a good protection against humidity and light.

Conversion:

- printable on both sides with flexographic and rotogravure technologies
- suitable for adhesive lamination with barrier films (CLB, BFA, BFC, BFT) or with other substrates depending on application
- overcoating with other acrylic or PVdC lacquers

Storage:

- Treofan CSG has to be protected from water and from high levels of humidity. Place Treofan CSG in the processing area approximately 24 hours prior to processing

Certified according to

## DIN EN ISO 9001:2000

Compliance with industrial health and safety standards: Treofan OPP films do not present any significant danger to health and safety in the workplace, provided they are used for the intended purpose in accordance with conventional practices and that health and safety regulations are observed. Relevant guidelines can be found in our safety information.

## TECHNICAL DATA (typical values)

Properties	CSG 35	CSG 40	CSG 50	Unit	Measuring method
Nominal thickness	35	40	50	µm	–
Unit weight	25.7	29.3	36.6	g/m <sup>2</sup>	ISO 4591
Density	0.73	0.73	0.73	g/cm <sup>3</sup>	–
Yield	38.9	34.1	27.3	m <sup>2</sup> /kg	–
Tensile strength: machine direction transverse direction	65 150	65 150	65 150	N/mm <sup>2</sup> N/mm <sup>2</sup>	ASTM D 882 DIN 53455
Elongation at break: machine direction transverse direction	160 40	160 40	160 40	% %	ASTM D 882 DIN 53455
Dimensional stability: machine direction transverse direction	-4.0 -2.5	-4.0 -2.5	-4.0 -2.5	% %	130°C, 5 min 130°C, 5 min
Coefficient of friction	0.28	0.28	0.28	–	ASTM D 1894 – DIN 53375
Heat-seal range	90–145	90–145	90–145	°C	10 psi, 0.2" (flat bar)
Heat-seal strength	120	120	120	g/cm	Treofan
Water vapour transmission: 38°C/90% rh 23°C/85% rh	6.1 1.3	5.1 1.1	3.8 0.7	g/m <sup>2</sup> *d g/m <sup>2</sup> *d	ASTM F 1249 ASTM F 1249
Oxygen permeability: 23°C/75% rh	900	800	650	cm <sup>3</sup> /m <sup>2</sup> *d	ASTM F 1927
Opacity	75	77	80	%	Gretag Macbeth D 200-II
Gloss	84	84	84	%	ASTM D 2457

## AVAILABILITY (unprinted film)

Reel length (m):

Packaging film	Standard length	6-times standard
CSG 35	1,750	10,500
CSG 40	1,550	9,300
CSG 50	1,300	7,800

Maximum reel outside diameter (mm):

Core diameter	Standard length	6-times standard
76 mm	approx. 320	–
152 mm	approx. 340	approx. 780

Maximum reel width: 2,000 mm  
Standard conditions: widths > 1,500 mm  
only 6-times standard length

The figures and the data provided in this data sheet are consistent with the current state of our knowledge, and are intended to provide general information on our products and their applications. They do not constitute a guarantee of any specific product attributes or the suitability of products for specific applications. Any existing commercial rights or patents must be observed.

Tests have shown that under the prescribed storage conditions the characteristics of Treofan CSG will maintain consistent performance and will be best before use throughout a 6-months period after delivery. Treofan CSG is largely unaffected by climatic influences, but should not be stored at temperatures above 30°C (86°F). The rolls should be kept in their original wrapping until used. After the rolls have been unwrapped, they should be stored safely in horizontal position.

## Food Safety

Treofan CSG has been developed specially for packaging foods and meets the specific requirements on health and safety. It meets the FDA and EC regulations, which includes the specific "German Food and Commodity Act" and the current recommendations of the BfR. Compliance with other specific national regulations is available on request.

## HEADOFFICE TREOFAN GROUP

Treofan Germany GmbH & Co. KG  
Am Prime Parc 17  
65479 Raunheim, Germany  
Phone: +49 6142 200 0  
Fax: +49 6142 200 3299

## SALES CONTACTS

**Business Team Head Packaging**  
Phone: +49 6142 200 3265  
Fax: +49 6142 200 3299  
guido.bisch@de.treofan.com  
Contact: Guido Bisch

**Africa**  
Phone: +27 11 761 7617  
gunnar.vahlenkamp@za.treofan.com  
Contact: Gunnar Vahlenkamp

**Benelux**  
Phone: +33 5 5660 0994  
michel.malet@treofan.com  
Contact: Michel Malet

**Eastern Europe**  
Phone: +49 6142 200 3263  
peter.breburda@de.treofan.com  
Contact: Peter Breburda

**Export Treofan Group**  
Phone: +34 93 306 8327  
ignacio.velez@es.treofan.com  
Contact: Ignacio Velez

**Germany/Switzerland/Austria**  
Phone: +49 6142 200 3402  
urs.ulrich@de.treofan.com  
Contact: Urs Ulrich

**Iberica**  
Phone: +34 93 306 8327  
ignacio.velez@es.treofan.com  
Contact: Ignacio Velez

**Italy**  
Phone: +39 02 6718 7432  
sergio.arcari@it.treofan.com  
Contact: Sergio Arcari

**Mexico/Latin America**  
Phone: +52 436 363 8044  
Phone: +52 436 363 8115  
alfonso.flores@mx.treofan.com  
Contact: Alfonso Flores

**United Kingdom**  
Phone: +44 1793 34 4004  
carey.ashworth@uk.treofan.com  
Contact: Carey Ashworth

**USA/Canada**  
Phone: +1 336 766 9448  
grant.gustafson@us.treofan.com  
Contact: Grant Gustafson



[www.treofan.com](http://www.treofan.com)