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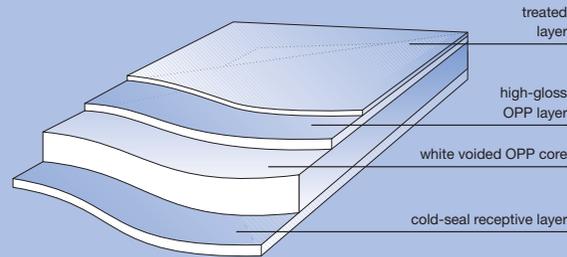
SHD

- High-gloss white voided co-extruded OPP film
- Excellent cold-seal adhesion



TREOFAN PACKAGING FILM SHD

White voided OPP film with exceptional surface gloss



Treofan SHD is a biaxially oriented, co-extruded polypropylene film. The special external characteristics are the white colour produced by the compact cellular structure and the high gloss. Treofan SHD has been especially developed for cold-seal applications. The film is corona-treated on one side to improve the adhesion during printing and lamination.

PRODUCT FEATURES

Physical characteristics:

- high resistance to tear and puncture
- excellent resistance to low temperatures
- dimensionally stable under conditions of varying humidity

Film characteristics:

- low water vapour permeability
- water-repellent
- resistance to biological oil and biological grease
- odourless and taste-free
- physiologically harmless, thus suitable for food packaging

Optical characteristics:

- high-gloss face contributes to good print presentation
- white finish gives impression of hygiene and cleanliness

Special properties:

- specially formulated for cold-seal coating applications
- good print receptivity
- protection against light-induced fat oxidation due to the light barrier in the UV range

APPLICATIONS AND PROCESSING

Treofan SHD can be used for packaging various types of filling products and products which need to be protected against moisture or dehydration. Also for packages subject to high mechanical stress such as deep-freeze packs. Using cold-seal coating, it is also suitable for packaging temperature-sensitive products, such as chocolate and ice cream.

Printing:

- flexographic and rotogravure printing (half-tone and line)
- high whiteness of the OPP film saves white base colour, particularly with full-surface printing
- glossy print due to high gloss of the corona-treated film side

Laminating:

- adhesive or extrusion lamination with OPP or with other substrates, depending on application

Packaging:

- with proper cold-seal coating Treofan SHD is successfully used on a wide range of HFFS machines

Storage:

- place Treofan SHD 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	SHD 28	SHD 35	SHD 40	SHD 50	SHD 60	Unit	Measuring method
Unit weight	21.5	26.0	30.0	37.0	45.0	g/m ²	ISO 4591
Yield	46.5	38.5	33.3	27.0	22.2	m ² /kg	ISO 4591
Surface tension (treated side)	36–39	36–39	36–39	36–39	36–39	mN/m	DIN ISO 8296
Gloss (treated side)	70	70	70	70	70	gloss units	DIN EN ISO 2813
Opacity	76	80	83	85	88	%	DIN 53146
Whiteness acc. to Berger	79	81	83	85	86	%	DIN 5033
Breaking load: machine direction	30	40	45	55	60	N/15 mm	DIN EN ISO 527-1/-3
transversal direction	70	100	120	140	160	N/15 mm	DIN EN ISO 527-1/-3
Elongation at break: machine direction	140	140	140	140	140	%	DIN EN ISO 527-1/-3
transversal direction	35	35	35	35	35	%	DIN EN ISO 527-1/-3
Water vapour permeability: 23°C/85% rh	1.1	0.9	0.8	0.6	0.5	g/m ² *d	ASTM F 1249
38°C/90% rh	5.5	4.5	4.0	3.0	2.5	± 10%	ASTM F 1249

AVAILABILITY (unprinted film)

Reel length (m):

Packaging film	Standard length	Up to 6-times standard
SHD 28	2,300	13,800
SHD 35	1,800	10,800
SHD 40	1,600	9,600
SHD 50	1,300	7,800
SHD 60	1,100	6,600

8-times standard or other reel lengths available on request

Maximum reel outside diameter (mm):

Core diameter	Standard length	Up to 8-times standard
77 mm	approx. 310	-
152 mm	approx. 340	approx. 740

Max. reel width: 2,000 mm (widths > 2,000 mm on request)

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 SHD will maintain consistent performance and will be best before use throughout a 6-months period after delivery. Treofan SHD 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 SHD 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.

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