

impact

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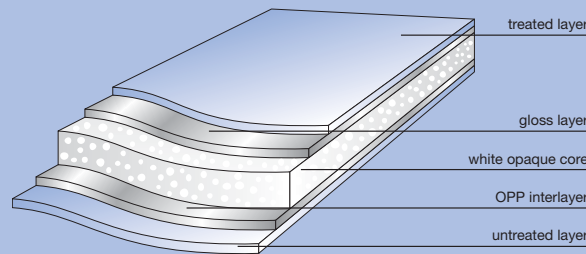
## QCD/H

- Improved yield white opaque film  
D – one side treated  
H – both sides treated
- Designed for cold seal applications
- High gloss and enhanced whiteness
- Optimised balance of yield and physical properties



## TREOFAN PACKAGING FILM QCD/H

White opaque film for cold seal applications with high gloss and enhanced stiffness



Treofan QCD/H is a white opaque film, specially developed for cold-seal applications. The film has been specially formulated to produce a higher yield of film than standard, and to provide an improved balance of yield and physical properties.

## PRODUCT FEATURES

### Physical characteristics:

- high resistance to tear and puncture
- excellent resistance to low temperature
- dimensionally stable under conditions of varying humidity
- improved yield vs. standard opaque products

### Film characteristics:

- water repellent
- resistance to biological oil and biological grease
- physiologically harmless, thus suitable for food packaging
- resistant to fruit acids and sugars

### Optical characteristics:

- high gloss on outer face
- good presentation of graphics and good crease resistance for shelf appeal

### Special properties:

- printable and glueable
- good antistatic properties
- good machinability
- balanced yield vs. physical properties
- specially designed for cold-seal applications

## APPLICATIONS AND PROCESSING

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

### Printing:

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

### Laminating:

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

### Packaging:

- developed for cold-seal coated applications, the film can be successfully used on a wide range of HFFS machines

### Storage:

- place Treofan QCD/H 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	QCD/H 35	QCD/H 40	QCD/H 50	Unit	Measuring method
Unit weight	23.5	27.0	34.0	g/m <sup>2</sup>	ISO 4591
Yield	42.6	37.0	29.4	m <sup>2</sup> /kg	ISO 4591
Surface tension (treated side)	36–39	36–39	36–39	mN/m	DIN ISO 8296
Gloss (treated side)	70	70	70	gloss units	DIN EN ISO 2813
Opacity	80	83	86	%	DIN 53146
Whiteness according to Berger	81	83	85	%	DIN 5033
Breaking load: machine direction	35	40	45	N/15 mm	DIN EN ISO 527-1/-3
transverse direction	80	100	120	N/15 mm	DIN EN ISO 527-1/-3
Elongation at break: machine direction	135	135	135	%	DIN EN ISO 527-1/-3
transverse direction	35	35	35	%	DIN EN ISO 527-1/-3
Water vapour permeability: 23°C/85% rh	1.1	1.0	0.8	g/m <sup>2</sup> *d	ASTM F 1249
38°C/90% rh	5.5	4.8	4.0	±10%	ASTM F 1249

## AVAILABILITY (unprinted film)

Reel length (m):

Packaging film	Standard length	6-times standard
QCD/H 35	1,800	10,800
QCD/H 40	1,600	9,600
QCD/H 50	1,300	7,800

Maximum reel outside diameter (mm):

Core diameter	Standard length	6-times standard
77 mm	approx. 330	–
152 mm	approx. 360	approx. 740

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

Tests have shown that under the prescribed storage conditions the characteristics of Treofan QCD/H will maintain consistent performance and will be best before use throughout a 6-months period after delivery. Treofan QCD/H 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 QCD/H 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.

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.

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