



GLATFELTER

# Glassine Echo<sup>®</sup>

## Natur





# ECHO<sup>®</sup> Glassine Papers

## Glatfelter Ober-Schmitten GmbH

### ECHO<sup>®</sup> Glassine Papers

- 100% cellulose fiber from sustainable forestry resources
- Exclusively made of virgin fibers
- Transparent and grease-resistant (achieved by mechanical treatment)
- Offering highest density
- Available as FSC<sup>®</sup> (FSC<sup>®</sup> C041025) and / or PEFC (PEFC/04-31-2118) certified products

### Advantages

- Taste and smell neutrality
- Permeable surface structure
- Recyclability

### Features / Converting / Value Addition

- Paper substances from 25 g/m<sup>2</sup> up to 95 g/m<sup>2</sup>
- Two paper machines with a maximum trim of 1,500 mm and 1,700 mm
- Environmentally friendly bleached (ECF / TCF) / unbleached
- Opaque / colored
- Bobbins from 20 mm up to 1,700 mm
- Sheets from 100 x 100 mm up to 700 x 1,000 mm
- Plain or embossed with various patterns
- Wax surface treatment (Slip Easy)
- Printability: flexo, digital, offset and gravure printing

### Certifications

- Glatfelter Ober-Schmitten GmbH is certified according to ISO 9001, ISO 14001, ISO 22000 and ISO 50001.
- Kosher
- Halal

### Food contact certification (generally applicable for our ECHO<sup>®</sup> products)

- European regulation EU1935/2004
- Recommendation XXXVI of the German BfR

For a specific compliance requirement please refer to our sales team.

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## unbleached glazed Glassine

100% unbleached pulp or cellulose	Standards	Tolerances
Substance	ISO 536	± 6 %
Thickness	ISO 534	± 6 %
Absolute residual moisture content	ISO 287	6,0 ... 8,0 %
PH-value	ISO 6588	4,0 ... 8,0
Smoothness (Bekk) wire side	ISO 5627	≥ 300 sec (typical value)
Smoothness (Bekk) upper side	ISO 5627	≥ 400 sec (typical value)
Grease resistance	TAPPI	≥ 30 sec.

g/m <sup>2</sup>	Thickness µm	Tensile strength MD ≥ N/15mm
		ISO 1924
35	29	36
40	33	40
45	36	44
60	47	60
95	76	81

Suitable for baking applications in conventional as well as in microwave ovens up to a temperature of 220 °C

# Miscellaneous

## Tolerances:

Roll widths	Tolerances
= 10 mm	+/- 0,2 mm
> 11 mm ... ≤ 20 mm	+/- 0,3 mm
> 20 mm ... ≤ 50 mm	+/- 0,4 mm
> 50 mm ... ≤ 100 mm	+/- 0,5 mm
> 100 mm ... ≤ 200 mm	+/- 1,0 mm
> 200 mm ... ≤ 400 mm	+/- 1,5 mm
> 400 mm ... ≤ 700 mm	+/- 2,0 mm
> 700 mm ... ≤ 1200 mm	+/- 2,5 mm
> 1200 mm	+/- 3,0 mm

For sheet products applies:  
DIN EN 644

## Transport, Handling and Storage Recommendation

- dry and hygienic storage (avoidance of strong odors)
- protection against humidity and moisture
- transport only in closed, hygienic and clean trucks or containers (no air condition)
- secure cargo from shifting
- temperature accommodation prior to converting essential to protect the Glassine from condensing humidity
- sheets - especially embossed - should not get piled

We can recommend a storage period of 12 months from the date of supply under the following conditions:

- storage in original packaging
- temperature: 10°C - 30°C
- indoor climate: 50 ± 10% humidity
- protection from thermal fluctuation, direct sunlight and damage

Beyond one-year storage we recommend to measure all relevant paper properties prior to processing.



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