



GLATFELTER

# Glassine Echo<sup>®</sup>

## Win





# ECHO<sup>®</sup> Glassine Papers

## Glatfelter Ober-Schmittgen 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-Schmittgen 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.

# ECHO<sup>®</sup> Win

## bleached glazed windowing Glassine

| 100% bleached cellulose pulp       | Standards | Tolerances    |
|------------------------------------|-----------|---------------|
| Substance                          | ISO 536   | ± 6 %         |
| Substance Afnor                    | ISO 536   | ± 4 %         |
| Thickness                          | ISO 534   | ± 6 %         |
| Absolute residual moisture content | ISO 287   | 6,0 ... 8,0 % |
| PH-value                           | ISO 6588  | 6,0 ... 8,0   |

| g/m <sup>2</sup> | Thickness<br>µm | Transparency<br>≥ % | Tensile strength MD<br>≥ N/15mm |
|------------------|-----------------|---------------------|---------------------------------|
|                  |                 | DIN 53147           | ISO 1924                        |
| 30               | 23              | 85                  | 32                              |
| 31               | 24              | 85                  | 34                              |
| 32               | 24,5            | 84                  | 34                              |
| 32*              | 24,5            | 85                  | 32                              |
| 33               | 25              | 84                  | 35                              |
| 35               | 27              | 82                  | 36                              |
| 35*              | 27              | 85                  | 32                              |
| 37               | 28,5            | 81                  | 38                              |
| 40               | 31              | 79                  | 40                              |
| 50               | 38,5            | 74                  | 47                              |
| 60               | 46              | 68                  | 55                              |

\*Complies with French regulation AFNOR NF 316

# 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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