

# Anti-Skid or Anti-Slip Papers

## Anti-Skid or Anti-Slip Papers

**Sierra Coating Technologies LLC** developed this lightweight, anti-slip tray liner to prevent plates and glasses from sliding during food service — it securely holds items on trays held at up to 40° angles, minimizing spillage and breakage. It is also printable to serve as a decorative element or promotional opportunity for the customer.

Our product development team chose 35 lb bond paper to use for this application based on its low cost, printability, and easy-to-coat properties. We tested a number of different coatings from a variety of vendors, and applied each to the paper in various weight formulations and with several different application patterns.

The tray liners produced from these trial runs were slide tested to evaluate their performance as well as print tested to assess the overall look and resolution.

Successful runs were further analyzed for material usage and speed of production to ensure a low overall cost for the product while still maintaining high quality. This anti-skid tray liner was delivered in 60" rolls, slit in 19.5"

intervals, and packaged as a master roll with headers and plastic wrap.



Sierra® Coating is ready to manufacture anti-slip tray liners to meet the needs of your application. Coatings can be formulated based on application needs, and we can also custom cut sheets to your desired size and package them according to your needs.

*To learn more about this project, read below, or contact Sierra Coating to learn how our anti-slip/anti-skid papers can help you with your application.*

## Anti-Skid or Anti-Slip Papers Project Highlights

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|--------------|-------------------------------|
| Product Name | Anti-Skid or Anti-Slip papers |
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| <p>Product Description</p> | <p>Light weight papers with or without a pattern coating of anti-skid<br/>Coatings are soft as measured by a low t sub g standard<br/>Product is used for tray liners in the food service industry to prevent plates and glasses from sliding during food service</p> |
| <p>Project Scope</p>       | <p>Find correct coating and pattern to meet a 40 degree slip angle<br/>Maintain printability of tray liner after coating is applied</p>   |
| <p>Development Work</p>    | <p>Test a number of coatings from different vendors<br/>Test patterns of application<br/>Lower overall cost of product by reducing waste and speed of production</p>  |
| <p>Testing Needed</p>      | <p>Meet slide testing on standard test<br/>Print test of coated product for look and resolution</p>   |

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| Trial Costs  | Set for multiple tests of coating<br>Test of 3 coating plates to achieve the best pattern |
| Raw Material Costs   | Paper cost controlled by customer<br>Chemical for testing supplied by Sierra              |
| Shipping Cost  | Shipping arranged by customer   |
| Capabilities Applied/Processes of Aqueous Coatings in Roll to Roll Process | Gravure application to cut rubber roll to create pattern                                  |
| Tightest Tolerance   | Minimum slide angle of hold of 30 degrees   |
| Material Type  | Paper 35 lbs. bond at 3000 sq. ft. ream   |
| Material Thickness   | Coating specification of 0.3 lbs. dry for pattern coat                                    |
| Product Length   | Roll supplied at 2400 lbs.  |
| Product Width  | Production widths from 60 inches<br>Rolls slit to width of 19.5 inches wide               |
| Temperature Range  | Flotation Drying with Temperature settings<br>240° F                                      |

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| Material Finish  | Product defined to specific target<br>Achieved by variations in coating and coating weights                           |
| Packaging  | Standard is master roll with headers and plastic wrap   |
| Special Features   | Product can be pre- or post-printed   |
| Secondary Operations Applied                               | Custom sheets to size, prints and packaging   |
| Industry for Use   | Majority of work goes on to be printed<br>Food Service  |
| Volume   | Minimum volume production 20,000 lbs. per run   |
| Delivery Time  | 80,000 lbs. raw paper received for inventory<br>Product is made in two patterns and released<br>20,000 lbs. per order |
| Delivery Location  | Product is shipped from Green Bay, Wisconsin  |
| Standards Met (Customer Supplied Print, ISO, ASTM, etc...) | Products are made to customer supplied specifications<br>Good Manufacturing Processes (GMP)                           |

*Learn more about our food grade products, by contacting Sierra Coating today.*