

Anti-Skid or Anti-Slip Papers

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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.

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More Resources

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

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



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Trial Costs	Set for multiple tests of coating Test of 3 coating plates to achieve the best pattern
Raw Material Costs	Paper cost controlled by customer 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 Rolls slit to width of 19.5 inches wide
Temperature Range	Flotation Drying with Temperature settings 240° F
Material Finish	Product defined to specific target Achieved by variations in coating and coating weights

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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 Food Service
Volume	Minimum volume production 20,000 lbs. per run
Delivery Time	80,000 lbs. raw paper received for inventory Product is made in two patterns and released 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 Good Manufacturing Processes (GMP)

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