



Starliner[®]

Updated 11/12

60# Colorcodes – **Permanent**

Stock Numbers	Color	Sheet Size	Color	Sheet Size
SL 2230	Red	8 ½" x 11"	SL 2233	Blue 30% PCW 8 ½" x 11"
SL 2220	Red	17" x 22"	SL 2223	Blue 30% PCW 17" x 22"
SL 2231	Yellow	8 ½" x 11"	SL 2236	Green 30% PCW 8 ½" x 11"
SL 2221	Yellow	17" x 22"	SL 2227	Green 30% PCW 17" x 22"
SL 2232	Orange 30% PCW	8 ½" x 11"		
SL 2222	Orange 30% PCW	17" x 22"		

Construction

Face: 60# Uncoated Color Paper
Adhesive: Permanent Acrylic
Liner: Specially processed scored release liner. Back printed in red "Starliner Permanent".

Applications and End Uses

Inventory, shipping, color coding, safety and scrapbook labels and POP requiring a bright intense attention getting appearance. Laser / Digital compatible. Always test and follow printer manufacturer's instructions regarding the use of pressure media.

Description

Face Vividly colored paper in a variety of colors for offset printing. Alkaline and lignin free resist fading. Blue, Green and Orange contain 30% post consumer fiber. Colors match Neenah Paper Astrobrights.

Typical Physical Properties of Face Stock without Adhesive

Caliper, inches	0.0048 (4.8 mils) ± 10%	TAPPI T-411
pH of face stock	+7	TAPPI T-509
Lignin	Less than 1%	ANSI /NISO Z39.48-1992
Basis Weight, lbs. (25" x 38"/500 sheets)	60+/- 10%	TAPPI T-410

Adhesive

An acrylic emulsion with aggressive initial tack and excellent ultimate adhesion to corrugated, glass, fiber drums and various plastic substrates and other common substrates. Its patented non-ooze characteristics will provide clean kiss, die, and guillotine cutting.

Typical Physical Properties of Adhesive

Thickness, inches	0.0007 +/- 10%	TAPPI T-411
Peel Adhesion, lbs./in.	3.0	PSTC-2 (30 min. applied)
Photographic Activity Test	Passes	ISO 14523
Temperature Ranges		
Minimum Application	+35°F (-2°C)	CTM #45 Curwood
Service Ranges	-65°F to +200°F (-54°C to +93°C)	Polyester Film Dry Surface

Liner A nominal 80# white kraft liner with scores every 1 ¼", has excellent lay-flat characteristics and internal strength, toughness, tear resistance for kiss cutting.

Typical Physical Properties of Liner

Caliper, inches	0.0042+/- 10%	TAPPI T-411
Basis Weight, lbs. (24" x 36"/500 sheets)	72 +/- 10%	TAPPI T-410

Total Caliper 0.0097 ± 10% inches (9.7 mils) 230 g/m²

Printing Process Printable by offset-lithography with compatible ink systems. Laser compatible with production sized toner fusion printers capable of using heavier weight materials. Use laser compatible inks if pre-printing. Follow printer manufacturer's recommendations on printing pressure sensitive media and always test.

Shelf Life Two years when stored at 70° F and 50% R.H.

This product complies with CONEG regulations.

IMPORTANT NOTICE: The information given and recommendations made herein are based on our research and are believed to be accurate. In every case, user shall determine before using any product in full scale production, whether such product is suitable for their particular purpose under their own operating conditions. User assumes all risk and liability whatsoever in connection with their use of any product. The products discussed herein are sold without any warranty as to merchantability or any other warranty, expressed or implied. No representative of ours has any authority to waive or change the foregoing provisions unless in a specific agreement signed by the officers of seller and manufacturer. Ultimately, sellers and manufacturers only obligation shall be to replace or credit such quantity of the product proved to be defective at its discretion.

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