



**Starliner**<sup>®</sup>

Updated 03/13

## Cougar<sup>®</sup> White 60# Opaque Litho - **Permanent**

Stock Numbers	Sheet Size		Sheet per Carton	Sheet Size		Sheet per Carton
	SLC 0085	8 1/2" x 11"	1000	SLC 1085	12" x 18"	200
	SLC 0086W	17 1/4" x 22 1/4"	500			
	SLC 0087	26" x 20"	500			

### Construction

**Face:** 60# Smooth Uncoated Litho  
**Adhesive:** MP2003 Permanent Acrylic  
**Liner:** Specially processed scored release liner.  
**Notes:** Back printed in red "Starliner Permanent."

### Applications and End Uses

Promotions, shipping, inventory labels and POP. Novelty is suitable for offset and digital presses and production sized laser printers. Always test and follow printer manufacturer's instructions regarding the use of pressure media.

### Description

**Face** A very bright 60# white, uncoated litho that takes pencil, pen, and other markings well. Offset and Digital / Laser printable.

#### Typical Physical Properties of Face Stock without Adhesive

Caliper, inches	0.0046 (4.6 mils) ± 10%	TAPPI T-411
Brightness	98	TAPPI T-452
Tear, grams.	66 MD 72 CD	TAPPI T-414
Tensile, lbs./in.	27.5 MD 13.3 CD	TAPPI T-494
Basis Weight, lbs. (25" x 38"/500 sheets)	60+/- 10%	TAPPI T-410

### Adhesive

Permanent acrylic emulsion adhesive exhibiting a high initial tack on most 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)
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 1/4", 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** 0.0095 ± 10% inches (9.5 mils) 230 g/m<sup>2</sup>

### 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.

**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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