

Young Shin Die Cutters - Since 1980

Young Shin, a South Korean manufacturer, has been producing and exporting Die Cutters for 40-years. With production facilities throughout Korea, wholly owned subsidiaries in the United States and Europe, and more than 100 installations throughout North America and 1,500 worldwide, Young Shin has become a growing presence in the Folded Carton, and Corrugated industries.

Whether new to packaging or an industry veteran, the below information is to better define various terminology used within the world of folded cartons!

Paperboard 101

The word "paper" evolved from the Egyptian word "papyrus". The making of paper traces its roots back to the second century China, where the Han Dynasty poured tree fiber and water mixtures through cloth, allowed the water to filter out, and let the remaining product dry while pressing it into a mat; or what we now call a sheet of paper! Fast forward to the 19th century - 1830 to be exact - when mass production of paper, or paperboard was introduced via the Fourdrinier Machine.

The Northeast has always been credited with the "beginnings" of Die Cutting and Packaging manufacturing. Initially, a Jeweler in Boston began making branded boxes for himself and other local retailers. Several decades thereafter, with the introduction of Nabisco's "soda cracker", in New York, came high volume manufacturing of folded carton boxes.

Present day, Paperboard Packaging is a \$10 billion U.S. market supporting industries as far ranging as food, beverage, healthcare, cosmetics, tobacco, pharmaceutical, home goods, and luxury retail.

Common Types of Paperboard

Paperboard properties can be evaluated on basis weight, brightness, caliper, glueability, moisture content, plybond strength, smoothness, and bend resistance. However, the Packaging market tends to rely on a few, core boards.

The (4) most common board types are Solid Bleached Sulfate, Coated Unbleached Kraft, Coated Recycled, and Chipboard.

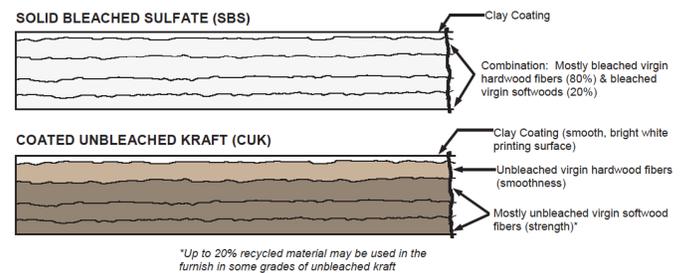
Solid Bleached Sulfate (SBS) - The preferred choice for food packaging, tobacco, cosmetics and medical products, SBS is a premium grade, bright white board that's ideal for high quality printing. The top ply is bleached hardwood for smoothness, while the other plys are bleached softwood.

Coated Unbleached Kraft (CUK) - While SBS is bleached throughout, CUK utilizes a top coated for a smooth, white printed surface and various unbleached virgin kraft fiber that gives it the natural brown color below. Predominantly made from south pine wood, it has excellent strength and tear resistance making it ideal for beer and beverage containers, or heavy duty retail packaging such as hardware goods.

Coated Recycled Paperboard - This paperboard is, you guessed it, made of recycled fibers from the paper mill and post-consumer waste. It typically has a top ply of white fiber, and finished with a coating to improve print capabilities. Recycled board is generally used for bakery, facial tissue, pasta, cereal, and other lightweight food boxes.

Chipboard - Manufactured from re-purposed newspaper and corrugated material, this is a thick board which does not bend or fold. In the Packaging market it is typically used for Rigid Set Up boxes, which are prevalent in the luxury goods and jewelry markets due to the products higher perception of finishing.

SBS vs. Coated Brown Board



Our Industry & the Environment

"Don't print that, you'll kill a tree" they say! As defenders of our community, let's take pride in the efforts our industry does to make the environment better:

- Virtually all paperboard that is produced in the United States originates from a certified tree farm
- The milling of paper actually *increases* the number of trees on our planet - for every tree harvested five more are planted, adding millions of new trees to the environment!
- Trees are one of the largest "consumers" of carbon dioxide and they expel oxygen...a win-win!
- Paper-based packaging makes up almost 75% of the 27 million tons of packaging materials recovered during recycling; plastics cannot say the same!



+1.262.522.3330



sales@bestgraphics.net



bestgraphics.net

MORE INFO