CHILL AT™ Corrugate

Think outside the box with CHILL AT

Corrugated materials make up the bulk of all packaging materials in the U.S. – shipping all over the globe every day. Featuring a high performance design, manufacturing and delivery system, corrugate is known for its durable, versatile, sustainable, customizable and cost-effective construction. It is used to ship a wide variety of items – from liquids to fresh foods. Corrugated boxes are highly valued in the foodservice industry, for example, due to their lightweight, low cost, graphics capabilities, and well-established recycling infrastructure. In fact, they are the leading type of packaging for produce.

Since corrugate has the potential to be used in nearly any industry and every application condition – cold, hot, damp, dry, etc. – corrugate labels need to be specially engineered for these varying conditions.

mactac®
technology that sticks

Fun Facts

❄ In the late 1870s in Brooklyn, New York, Scotsman Robert Gair invented a much more economical pre-cut and creased cardboard box after someone in his factory mistakenly chopped through thousands of paper bags instead of creasing them.

❄ Nabisco ordered cardboard boxes in 1896 for its biscuits and Kellogg's ordered them for its cereal in the early 1900s. Both significantly impacted the future of food packaging in boxes.

❄ In 2004, an architect named Peter Ryan, who is from Melbourne, designed and built a livable house made from cardboard boxes.

❄ Corrugated materials are extremely environmentally friendly and have the best recycling rate of any packaging material used today. Nearly all are recycled into new products and use materials supplied by the Sustainable Forestry Initiative.

However, with the right label, you can just chill. Simply, choose a label that will:

- Adhere quickly, easily and stay in place as needed.
- Withstand the demands of the shipping business, including packing, transportation, storage and repeated product handling.
- Meet the needs of varying application conditions and temperatures.

Just chill with CHILL AT™

- Features a hot melt rubber adhesive designed to form a strong initial bond when applied and ensure secure, lasting adhesion.
- Meets a wide range of application temperature needs – from very cold to very hot – ranging from -65°F to 150°F (-54°C to 65°C).
- Has better tack and peel properties than competitive acrylic all-temperature products, which is especially advantageous in colder temperature corrugate applications, such as meat packaging, which is often shipped and labeled in cold storage.
- Features excellent quick tack and ultimate adhesion, including some difficult-to-adhere-to light waxy corrugate.
- Features water resistance properties, maintaining adhesive integrity and aesthetic appeal if exposed to water or moisture.

CHILL AT Product Offering

Product	Description	Adhesive	
DTW7802	Direct Thermal Weigh Scale	Chill AT	
PF7802	Vivid™ ICE 2 mil Clear BOPP	Chill AT	
PJ7802	Vivid 2.6 mil White BOPP	Chill AT	
SGL7802	Platinum™ Xtra Semi Gloss	Chill AT	
SMP7802	Bright Silver Metalized Paper	Chill AT	
AJR7802	Red Fluorescent	Chill AT	
DTNN7802	Non-Topcoated Direct Thermal	Chill AT	
GFC7802	Vivid Clear Polystyrene	Chill AT	
GFW7802	Vivid White Polystyrene	Chill AT	
TT7802	OPTISCAN® 2C Thermal Transfer	Chill AT	

Corrugate: Did You Know?

Statistics

- Corrugated packing materials account for 90 percent of U.S. shipping.
- Recent statistics show that demand for corrugated packaging material is expected to increase more than 4 percent annually, and will reach $176 billion by 2019.
- Between 1972 and 2006, the corrugated industry reduced its fossil fuel consumption by 56 percent.
- Researchers predict future corrugated packaging will take on a greater role in the protection, traceability, and marketing of fresh fruits and vegetables. For instance, with the development of new marketing techniques, such as QR codes and smartphone apps, interactive marketing is providing new opportunities for corrugated converters to work with digital print specialists.

Regulations

The design of corrugated boxes must meet several ASTM Standards, such as D1974, the standard practice for methods of closing, sealing and reinforcing fiberboard boxes; D5118, the standard practice for fabrication of fiberboard shipping boxes; and D642, the test method for determining compressive resistance of shipping containers, components and unit loads. In regard to compressive strength, in 1990, the trade associations for the corrugated industry received approval on the use of an edge crush test to predict compression strength of finished corrugated fiberboard boxes.

The rules for shipping products in corrugated boxes by truck are outlined into two publications: the National Motor Freight Traffic Association's National Motor Freight Classification and the National Railroad Freight Committee's Uniform Freight Classification, which offer detailed packaging rules and individual carriers using the rules. The air cargo and airline industries do not publish detailed packaging instructions except for special articles such as live animals, human remains, seafood, etc. Additionally, individual carriers publish their own tariffs and often require compliance with material specifications per package weight, dimensions, International Safe Transit Association Pre-shipment Testing Procedures and Projects, and more.

	Liner	Width	Availability	Precise
	2.4 SCK	78"	Stock	P5, P10
	2.4 SCK	78"	Stock	
	2.4 SCK	78"	Stock	P5, P10
	2.4 SCK	78"	Stock	P5, P10
	2.4 SCK	78"	Stock	P5
	2.4 SCK	78"	Coming Soon	
	2.4 SCK	78"	Stock	P10
	2.4 SCK	78"	Coming Soon	
	2.4 SCK	78"	Coming Soon	
	2.4 SCK	78"	Stock	P10

CHILL AT™

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