



CHILL AT®

Corrugate



Roll Label

PSA-coated papers and films in roll-to-roll form. Extensive product options, available customization, varying roll lengths and widths, and customer friendly services, like our Mactac PreciseSM Program, which offers a precise amount of material needed for small runs and limited applications.

www.mactac.com/rolllabel

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.



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.

Product	Description	Adhesive
AC7802	Platinum™ Semi Gloss	CHILL AT
AJR7802	Red Fluorescent	
DTNN7802	Non-Topcoated Direct Thermal	
DTNN7852-7	Non-Topcoated Direct Thermal	
DTW7802	Direct Thermal Weigh Scale	
DTW7852-7	Direct Thermal	
EDP7812	Premium EDP	
GFC7802	Vivid™ Clear Polystyrene	
PF7802	Vivid ICE 2.0 mil Clear BOPP	
PF7891-2	Vivid ICE 2.0 mil Clear BOPP	
PJ7802	Vivid 2.6 mil White BOPP	
PJ7891-2	Vivid 2.6 mil White BOPP	
PTS7801	2.0 mil Chrome BOPP	
PTS7891-2	2.0 mil Chrome BOPP	
PTW7802	Allure® 2.3 mil White BOPP	
SGL7802	Platinum Xtra Semi Gloss	
SGL7892-2	Platinum Xtra Semi Gloss	
SGW7802	Premium Wet Strength Semi Gloss	
SMP7802	Bright Silver Metalized Paper	
TL7802	DURASCAN® L	
TT7802	OPTISCAN® 2C Thermal Transfer	
UVS7802	UV Inkjet Semi Gloss	
DPT7902	4.0 mil Direct Thermal Film	CHILL AT EXTREME
DTW7902	Direct Thermal Weigh Scale	
PJ7902	Vivid 2.6 mil White BOPP	
SGL7902	Platinum™ Xtra Semi Gloss	

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	Product
2.4 SCK	78"	Stock	P5, P10	AC7802
2.4 SCK	78"	Stock		AJR7802
2.4 SCK	78"	Stock	P10	DTNN7802
Bloom hi.impact®	78"	Stock	P10	DTNN7852-7
2.4 SCK	78"	Stock	P5, P10	DTW7802
Bloom hi.impact	78"	Stock	P10	DTW7852-7
3.2 SCK	78"	Stock	P10	EDP7812
2.4 SCK	78"	Stock	P10	GFC7802
2.4 SCK	78"	Stock	P5, P10	PF7802
1.2 mil PET	60"	Stock	P10	PF7891-2
2.4 SCK	78"	Stock	P5, P10	PJ7802
1.2 mil PET	60"	Stock	P10	PJ7891-2
2.4 SCK	60"	Stock	P5, P10	PTS7801
1.2 mil PET	60"	Stock	P10	PTS7891-2
2.4 SCK	78"	Stock	P10	PTW7802
2.4 SCK	78"	Stock	P5, P10	SGL7802
1.2 mil PET	60"	Stock	P10	SGL7892-2
2.4 SCK	78"	Stock	P5, P10	SGW7802
2.4 SCK	78"	Stock	P5	SMP7802
2.4 SCK	78"	Stock	P5	TL7802
2.4 SCK	78"	Stock	P10	TT7802
2.4 SCK	78"	Stock	P5	UVS7802
2.4 SCK	78"	Stock	P10	DPT7902
2.4 SCK	78"	Stock	P10	DTW7902
2.4 SCK	78"	Stock	P5, P10	PJ7902
2.4 SCK	78"	Stock	P10	SGL7902



