

FLEXIBLE PACKAGING SOLUTIONS



STAND UP POUCHES



CUSTOM PRINTING



SIDE GUSSET POUCHES



FLAT POUCHES



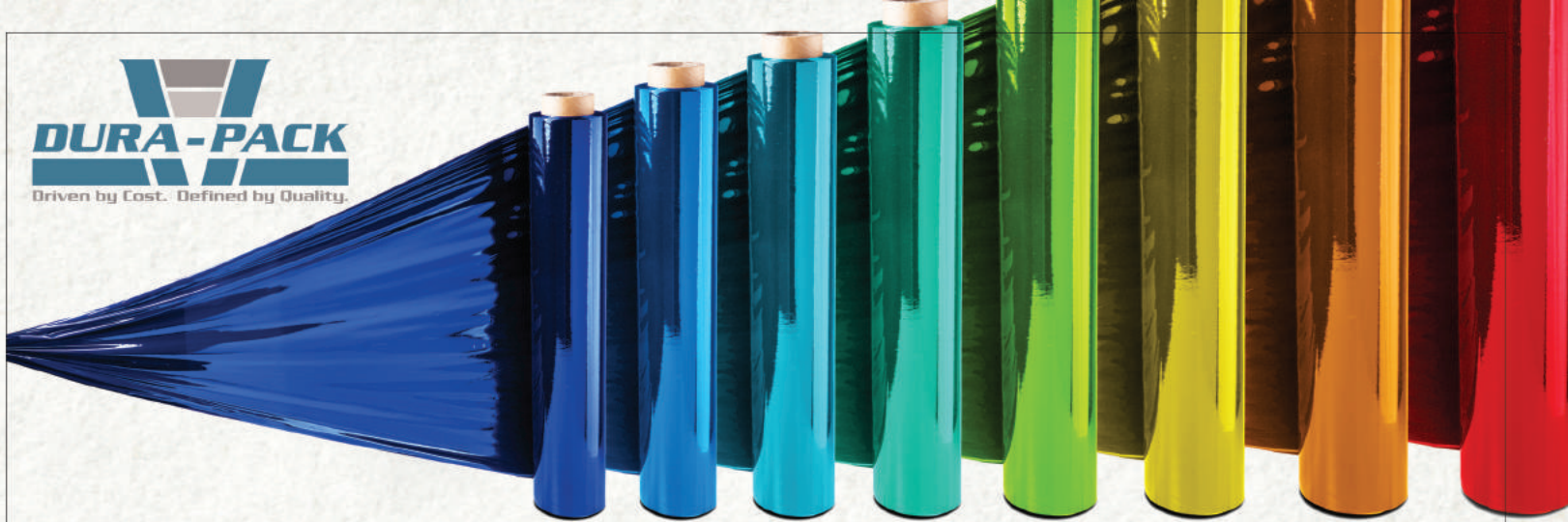
BAGGING & FILLING EQUIPMENT

SERVICES

- BAG DESIGN & PROTOTYPING
- VALVE & TIN TIE APPLICATION
- CUSTOM PRINTING
- POUCH LABELING
- STOCK & CUSTOM POUCHES

FILM TYPES

- HIGH BARRIER (FOIL, KPET, EVOH)
- HIGH STRENGTH
- MATTE FINISH (NATURAL LOOK)
- KRAFT
- ODOR BLOCKING (SMELL PROOF)



ARE YOU FLEXIBLE?

Flexible packaging uses 75% less plastic than traditional plastic packaging. Packaging weight is reduced by 70% which means lower shipping costs. Empty pouches occupy up to 95% less space.

UNDERSTANDING FILM

Stand up pouches are typically made from two or more films that are laminated together. Films can be laminated by using an adhesive or by heat and pressure. One of the more common laminated structures is PET/Ink/LLDPE.

PET (polyester or Mylar) is the outside layer that provides strength and high melting points.

Ink refers to the printing on the inside of the PET layer that is sandwiched with the next layer of film.

LLDPE (poly) is the inside layer that provides a moisture barrier and has lower melting points. This layer melts together to form the seal.

FILM THICKNESS

mil (thou) = .001 inch
gauge (ga) = .00001 inch = .01 mil
micron(μ) = .00003937 inch = .03937 mil

Example:

48 ga PET / Ink / 115μ LLDPE
The outside layer (PET) is .48 mil thick and the inside layer (LLDPE) is 4.5 mil thick for an overall pouch thickness of 5 mil.

BREAKING ALL THE BARRIERS

Flexible packaging provides an exterior barrier preventing the exchange of gasses and moisture from within the packaging, maximizing product shelf life.

Packaging films are assigned an **Oxygen Transfer Rate** (OTR) value, which is the amount of oxygen that passes through a defined area of film over a 24-hour period. The lower this number, the better the barrier. To increase shelf life, oxygen is removed by purging with nitrogen before sealing. Packaging films are also assigned a **Moisture Vapor Transfer Rate** (MVTR or WVTR) value.

BARRIER CHARACTERISTICS

Film	Description	OTR (cc/m2)*	MVTR (g/m2)*
Foil	Aluminium	0	0
EVOH	Ethylene Vinyl Alcohol	0.6	100
METPET	Metalized Polyester	0.95	1.2
KPET	Saran Coated PET	7.8	7.55
PET	Polyester	85	55
Nylon	Nylon	95	260
OPP	Polypropylene	2000	8
LLDPE	Polyethylene	2500	17

RECYCLABLE OPTIONS



Dura-Pack is proud to manufacture recyclable packaging utilizing Dow RecycleReady Technology. This technology offers the convenience and functional performance of a multi-material pouch with the added benefit of recyclability and is suitable to be recycled in communities with existing PE film recycling streams via programs such as the Grocery Store Drop-Off.



- Offers up to 88% less total material weight
- Consumes 54% less total energy
- Up to 90% less post-consumer solid waste when compared to a bag-in-box cake mix
- Improved seal strength and puncture resistance
- Potential for total system cost savings
- Tested and eligible to use the Sustainable Packaging Coalition (SPC) - How2Recycle Label

