

ShrinkPac™ Shrink Packaging Films



For a tough, durable wrap

Provides strong seals and good shrinkage under a wide range of operating conditions

ShrinkPac™

Marshall Plastic Film shrink packaging films are strong, clear, biaxially oriented, heat-shrinkable, linear low-density polyethylene film. Cross-linking produces a film that is extremely rugged and durable and provides strong seals and good shrinkage under a wide range of operating conditions.

Uses

Shrink packaging films are used when outstanding optics and a tough, durable wrap are required. Strong seals and excellent shrinkage are obtained with all gauges under a wide range of operating conditions. Marshall's film is functional on manual, semiautomatic and automatic shrink packaging machines.

Significant Features

Sealing

- Provides strong, durable seals with all sealing systems, including wires and knives
- Has a wide sealing temperature range
- Is forgiving to less-than-optimum seal equipment conditions
- Seals do not become brittle with age
- Excellent seal integrity with virtually no pin holes

Shrinking

- Excellent burn through resistance
- Forgiving under less than optimum tunnel conditions
- Average available shrinkage
- Medium shrink force
- Balanced shrinkage

General

- Excellent film durability
- Good tear resistance
- Will not embrittle with age
- High clarity
- Remains durable at freezer temperatures
- Available with print-treatment

Shrink material solutions

The Marshall Re-Design Program provides the end user the very best solution by bringing to the project the latest in materials and the machinery to extrude them and the correct selection of blowup ration to provide the shrink needed. Very often films are suggested that shrink better in the direction the end user wants, allow production equipment to run faster, provide the same or better strength and most important, use less materials and therefore, cost less per package. A perfect design means a perfect package using less material and at a lower cost.

Shrink materials are available in rolls and sheets as well as small, medium and large size bags. Bags can be produced inflate or gusseted bottom seal bags or flat or bottom gusset sideweld bags.



Marshall
PLASTIC FILM

904 East Allegan Avenue
Martin, MI 49070-0125
T: 269 672 5511
T: 800 410 8597
F: 800 672 5035

www.marshallplastic.com

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Standard Put-Ups

- Marshall film is available in gauges from .0008 to .01 as either flat or folded film
- Flat or folded film is available as print treated
- Film is wound on 3-inch cores
- Folded film will have approximately half the linear footage of flat film for same gauge and roll dimensions

Available widths:	Flat	4-98 inches
	Folded	4-98 inches

FDA/USDA Status

Films sold by Marshall Plastic Film for food packaging use comply with U.S. Food and Drug Administration (FDA) requirements under the Federal Food, Drug, and Cosmetic Act as amended.

Storage

Storage below 32°C (90°F) is recommended. Prolonged exposure to temperatures moderately above 32°C (90°F) or brief exposure to temperatures well above 32°C (90°F) may cause difficulty in unwinding film.

Film Specification Comparison

Property	ASTM Test Method	Unit	ShrinkPac™ AGB	ShrinkPac™ JMB	ShrinkPac™ PMB	ShrinkPac™ BASIC
Shrinkage, 102°C (216°F) --10 min	D1204	%(area)	35	40	40	50
Tensile Strength (MD/TD)	D882	psi	4138/3071	4798/4365	4161/4050	5300/4600
Stiffness Modulus (MD/TD)	D882	kpsi	33/27	37/27	30/28	42/27
Elongation (MD/TD)	D882	%	308/725	809/902	680/784	700/1000
Dart Drop	D1709A	g	90	94	98	90
Slip Level	D1894		High	High	Low	Medium



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