

# Can Liner University

## Can Liner Terminology

It is important to know a little about can liners to help you determine which can liner will work best for your particular application.

### Resin

Resin is the basic raw material used in manufacturing can liners. The two basic types of resins utilized in can liner manufacturing are **High Density** and **Linear Low Density**.



### Linear Low Density Can Liners

Linear Low Density can liners are made from high quality resins that are highly resistant to puncturing and tearing. The exceptional strength and stretch properties of Linear Low Density can liners make them a great general purpose can liner. Various resins that comprise Linear Low Density polyethylene include butane, hexene and metallocene.

### High Density Can Liners

High Density can liners are made from high molecular density resins, which are significantly stronger than other types of resins. The superior strength and moisture barrier properties of High Density can liners make them an excellent choice for heavy, wet trash.

### Gauge

Gauge is a term used in the can liner industry to describe the thickness of a can liner. Gauge is typically stated either in **mil** or **micron**.

### Mil

Mil is a measurement based on thousandth of an inch (.000). Linear Low Density can liners will range from .30 to 2.0 mil. Improved resin technologies have allowed manufacturers to produce thinner can liners that are much stronger than the can liners of the past.

### Micron

Micron is a measurement based on one hundred thousandths of an inch (.000000). High Density can liners range from 6 to 24 microns.

## Can Liner Formulas

**To Convert Microns to Mills:** divide the micron by 25.4 to arrive at a true mil thickness. (9 micron / 25.4 = .35 mil)

**To Convert Mills to Microns:** multiply the mil by 25.4 to arrive at a true micron thickness. (.35 x 25.4 = 9 micron)

Micron	5	6	7	8	9	10	11	12	13	14	15	16
Mil	.19	.23	.27	.31	.35	.39	.43	.47	.51	.55	.59	.62
Micron	17	18	20	21	22	23	24	25	26	27	28	
Mil	.66	.70	.74	.78	.82	.86	.90	.98	1.02	1.06	1.1	

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## Types of Seals



### Star Seal

A Star Seal can liner is manufactured by folding the bottom of the can liner over several times and then sealing it. Star Seal can liners will virtually eliminate leaks. They also conform better to the shape of the waste receptacle by spreading refuse around the can liner.



### Gusset Seal

A Gusset Seal can liner is a flat-style can liner that is manufactured with both sides tucked in to form gussets. The outer edges of the can liner where there are indentations is sealed with four layers of film, while the middle is sealed with only two layers. Can liners made with gussets have a tendency to leak with wet trash.



### Flat Seal

A Flat Seal can liner is manufactured by simply sealing the bottom edge. Can liners made with this type of seal are somewhat leak-proof and do not compromise the length of the can liner. Can liners made with a flat seal do not conform well to the waste receptacle, making them difficult to utilize.

## Step 1: Determine the proper can liner for your application

### Linear Low Density (LLD) Can Liner Advantages

- LLD can liners have superior stretch properties making them highly puncture and tear resistant.
- LLD can liners are an excellent choice for waste with sharp and jagged edges.
- LLD can liners strength and stretch properties make them a great multi-purpose can liner.

### High Density (HD) Can Liner Advantages

- HD can liners are up to three times stronger, and weigh half as much as LLD can liners.
- HD can liners are an excellent economical choice for heavy, wet trash and soft refuse.
- HD can liners have superior vapor and moisture protection, and are USDA and FDA approved for food use.
- HD can liners have smaller, lighter cases, which lower freight, storage and warehousing costs.
- HD can liners are more temperature resistant (-40 degrees to +212 degrees).

## Step 2: What size can liner do I need?



Each container should have a gallon capacity, or size printed on it.

Refer to the container chart in this brochure for pictures of actual trash container types. Just match the picture to your receptacle and it will tell you which size can liner you need.

**Bag Width:** To calculate the proper width of the can liner for your container, simply divide the circumference of your container by 2.

**Square Container Circumference:** Circumference=sum of all four sides added together.

**Round Container Circumference:** Circumference=diameter multiplied by 3.14

**Bag Length:** (round & square containers) add the height of the container, plus 4-5 inches for overhang.

## Step 3: How much weight does the can liner need to hold?

To determine the strength needed for your can liner, estimate the average weight of a full can liner in your application and match it to the max load capacity listed for each can liner.

# Container Chart

	Type	Gallon Size	Can Liner Size	High Density Part number	Linear Low Density Part number
	Small Office Wastebasket	5 Gallon	24" x 24" HD/LD	VH242406N VH242408N	VL2424LB
	Tall Office Wastebasket	5-7 Gallon 10 Gallon	24" x 24" HD/LD 24" x 32" LD 24" x 33" HD	VH242406N VH242408N VH243306N VH243308N	VL2424LB VL2432LB
	Step On Container	12 Gallon	30" x 36" LD 30" x 37" HD	VH303710N VH303713N	VL3036HB VL3036XHW VL3036XHB
	Round Container	15 Gallon	30" x 36" LD 30" x 37" HD	VH303710N VH303713N	VL3036HB VL3036XHW VL3036XHB
	Square Container	19-23 Gallon	30" x 36" LD 30" x 37" HD	VH303710N VH303713N	VL3036HB VL3036XHW VL3036XHB
	Brute* Container Huskee** Container	20 Gallon	30" x 36" LD 30" x 37" HD	VH303710N VH303713N	VL3036HB VL3036XHB VL3036XHW
	33 Gallon Can	33 Gallon	33" x 39" LD 33" X 40" HD	VH334011N VH334013N VH334016N	VL33392HB VL3339XHW VL3339XHB VL333915B VL333920B VL333924B
	Brute* Container Huskee** Container	44 Gallon	40" x 46" LD 40" X 48" HD	VH404812N VH404814N VH404816N VH404817N VH404822N VH404822K	VL4046HB VL4046XHW VL4046XHB VL404615B VL404620B VL404624B
	Big Wheel* Container Tilt 'N Wheel** Container	50 Gallon	43" x 47" LD 43" X 48" HD	VH434816N VH434817N VH434822K	VL4347HB VL4347XHW VL4347XHB VL434715B VL434720B
	Steel Drum	55-60 Gallon	36" x 60" HD-55 38" x 60" HD-60 38" x 58" LD	VH366017N VH386017N VH386017K VH386014N VH386022K	VL3858HB VL3858XHW VL3858XHB VL385815B VL385820B VL385824B
	Glutton* Container King Kan** Container	56 Gallon	43" x 47" LD 43" X 48" HD	VH434816N VH434817N VH434822K	VL4347HB VL4347XHW VL4347XHB VL434715B VL434720B

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