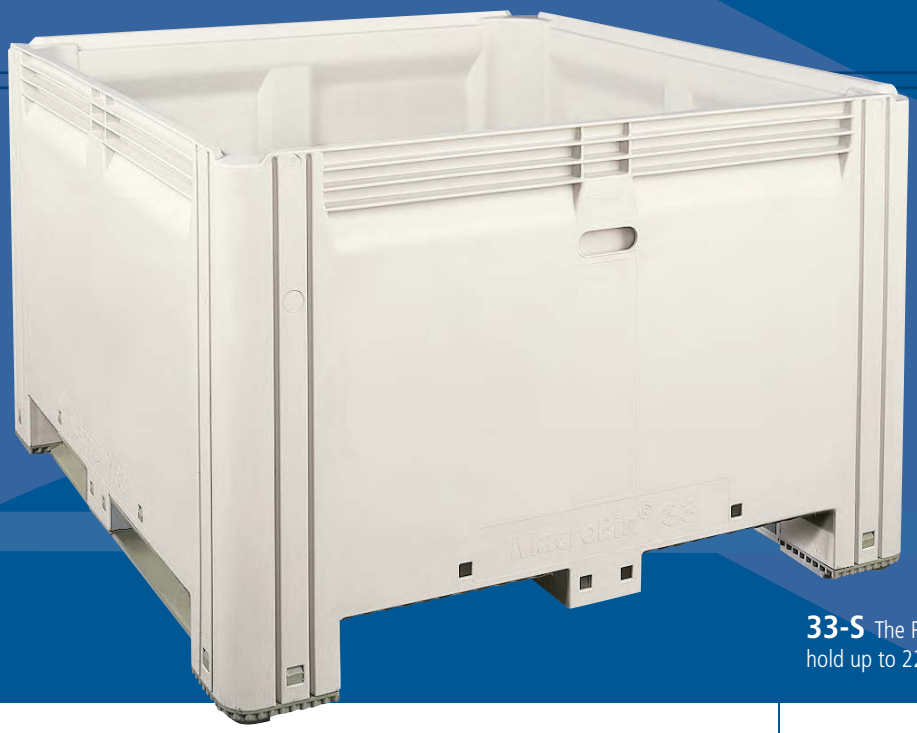
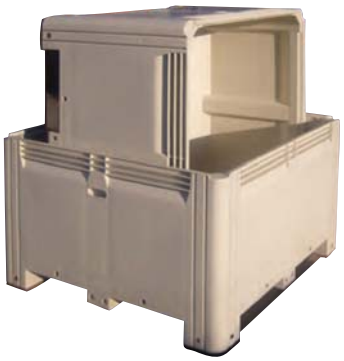
ProBin™ 33 Series



33-S The ProBin 33-S eliminates the needs for expensive liners and can hold up to 225 gallons.

The ProBin 33 Series is ideal for handling meat or seafood, fermenting wine, pickling or brining, and other food processing applications. The smooth, nonporous surfaces are easy to clean and won't trap debris. These large capacity rectangular bins, with 4-way entry and rotatable feet, are easy to move, stack, align, and store. When nested, flip a third bin upside down on top of the bottom bin and three bins can be shipped in the space of two.



Feature Highlights

Injection-molded, high impact resistant plastic stands up to heavy day-to-day use. The one-piece design eliminates the problem of product getting trapped between the side walls and base.

Splinter-resistant plastic delivers reduced maintenance costs, fewer injuries to workers, and less damage to product. Bin repair is inexpensive with hot air welding.

Lightweight construction reduces shipping costs and makes ProBins easier to move; their interlocking foot design makes them safer to stack — up to 9 high.*

Nonporous surfaces won't absorb water or dehydrate your product like wood bins, and they provide a constant tare weight throughout their use.

Rounded corners and smooth surfaces mean fewer scuffs, abrasions, and cuts on your product. Risk of contamination is reduced because there are fewer places for unwanted particles to hide.

Easy-to-sanitize ProBins keep cleaning costs to a minimum. A high-pressure wash removes most debris; a nonabrasive brush can dislodge any remaining items.

FDA-approved materials are certified safe for use with food products, eliminating many HACCP problems associated with wood bins.

*See reverse for maximum stack weight specifications.

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Benefits of Using ProBins

Increased productivity.

Lightweight ProBins are easy to handle, move, and transport. The unique interlocking foot design makes them easy to align and stack.

Improved pack out.

Rounded corners and smooth surfaces mean fewer scuffs, abrasions, and cuts on your product.

Reduced bin repair costs.

ProBins are virtually maintenance free; repairs are easy with hot air welding.

Better sanitation and reduced contamination.

Smooth, nonporous surfaces are easy to sanitize and won't trap debris, breed bacteria, or absorb chemicals like wood bins.

Improved traceability and bin security.

Several identification methods including RFID tags and attractive foil embossing are available.

Specifications for the ProBin 33-S

Load Capacity:	1,300 pounds
Volume Capacity:	52,000 cubic inches / 225 gallons
Tare Weight:	92.5 pounds (short foot) 93 pounds (long foot)
Maximum Stack Weight[1]:	7,500 pounds (long term, ambient temperature) 10,000 pounds [short term (<1 month), ambient temperature] 11,000 pounds [long term, cold storage (0° F to 35° F)[2]]
Molding Process:	High-pressure injection molding
Material:	Polypropylene, U.V. stabilized
Approval:	FDA-regulated material
Container Design:	Double wall corner and center posts
Foot Design:	Two full-length feet with forklift opening; positive interlocking foot design
Fork Lift Entry:	Four-way with patented integral slide-entry; foot side 2 1/8" opening, non-foot side 3 1/8" opening
Hand Holds:	Two
External Dimensions:	45 3/4" (L) x 48 7/8" (W) x 30 1/2" (H)
Internal Dimensions:	42 7/8" (L) x 46" (W) x 25 3/4" (H)
Options:	Customer identification with RFID tags or foil embossing MacroLid®

Notes: Dimensions assume tolerance of 1/4". Volume capacities assume tolerance of 5% and tare weights assume a tolerance of 4% unless noted otherwise. Ambient temperature approximately equal to 75° F. Data is subject to change.

[1] Stack Weight = (weight of bin contents + tare weight of bin) X number of bins in stack

[2] Please contact Macro Plastics if storage temperature is below 0° F.

Please refer to the appropriate User Guide for information on the safe transportation, stacking and handling of Macro Plastics products. The User Guides in PDF format are available online at www.macroplastics.com or call us at 1-800-845-6555.

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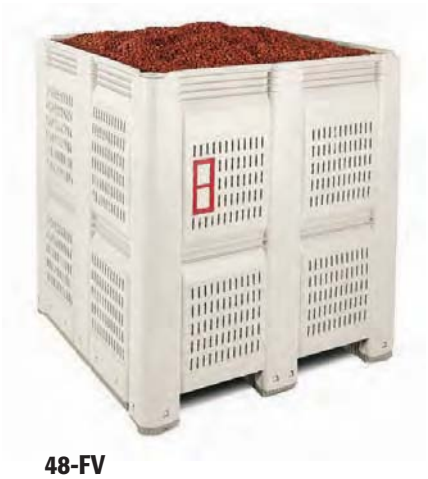
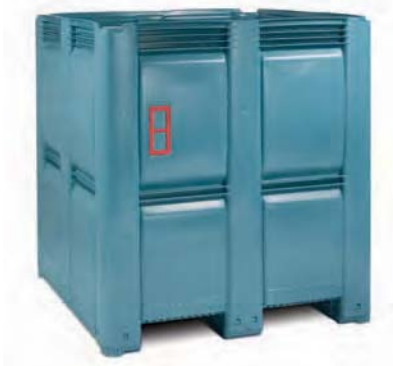
MacroBin® 48 Series

The **MacroBin 48** is the world's largest fixed-wall, high-pressure, injection-molded bin, replacing 4x4x4 foot metal, corrugated or wood containers.

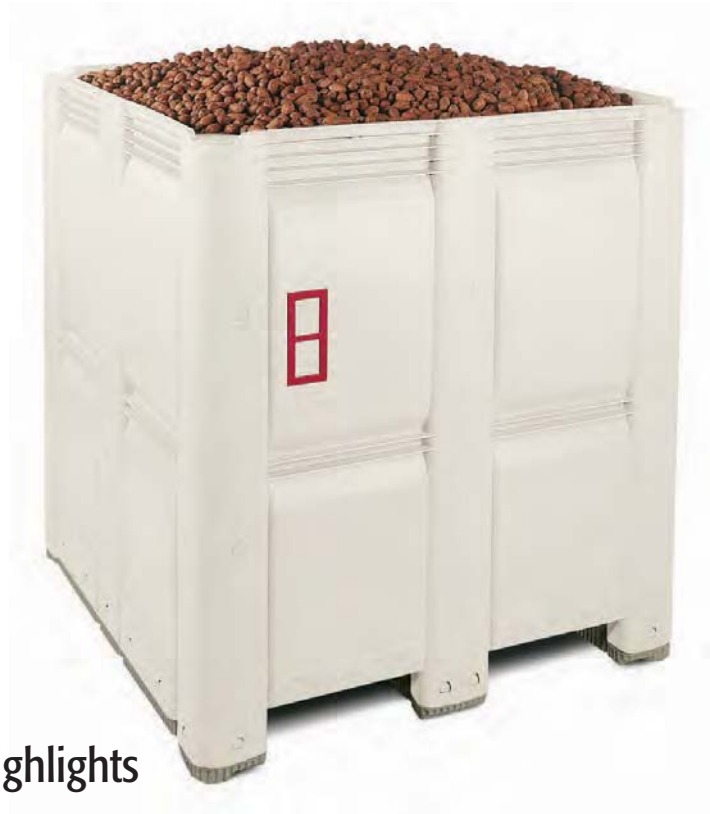


48-FV
The MacroBin 48-FV has hundreds of vents in the sides and base to facilitate superior airflow in storage.



48-S Blue
The MacroBin 48-S is also available in blue to assist nut processors in differentiating between nut meat and the MacroBin interior walls.

48-S
The MacroBin 48-S has a capacity of 94,000 cubic inches and holds up to 3,000 pounds or 407 gallons.



Feature Highlights

- **Easy-to-sanitize** MacroBins keep cleaning costs to a minimum. A high-pressure wash removes most debris; a non-abrasive brush can dislodge any remaining items.
- **Splinter-resistant plastic** eliminates contamination problems associated with wood chunks, paint chips or metal fragments. Bin repair is inexpensive with hot air welding.
- **Nonporous surfaces** won't absorb water or dehydrate your product like wood bins, and they provide a constant tare weight throughout their use.
- **FDA-approved materials** are certified safe for use with food products, eliminating many HACCP problems associated with wood bins.
- **Injection-molded, high-impact resistant copolymer** stands up to heavy day-to-day use. The one-piece design eliminates the problem of product getting trapped between the sidewalls and base.
- **Lightweight construction** reduces shipping costs and makes MacroBins easier to move; their direct-load corner and center posts make them safer to stack — up to 5 high.*
- **Rounded corners and smooth surfaces** mean less damage to your product. The need for expensive sleeves or liners may be eliminated.
- **Smart MacroBins** utilize securely-attached RFID tags to deliver improved tracking and traceability options.

** See reverse for maximum stack weight specifications.*

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Benefits of Using MacroBins

Increased productivity.
Lightweight MacroBins are easy to handle, move and transport; unique interlocking foot design makes them easy to align and stack.

Improved storage capacity.
Direct-load corner and center posts are designed for stacking bins up to 5 high.

Reduced bin repair costs.
MacroBins are virtually maintenance free; repairs are easy with hot air welding.

Better sanitation and reduced contamination.
Smooth, nonporous surfaces are easy to sanitize and won't trap debris, breed bacteria, or absorb chemicals like wood bins.

Improved pack out.
Rounded corners and smooth surfaces mean fewer scuffs, abrasions and cuts on your product.

Improved traceability and bin security.
Several identification methods including RFID tags and attractive foil embossing are available.

Specifications for the MacroBin 48-S

Load Capacity:	3,000 pounds
Volume Capacity:	94,000 cubic inches / 407 gallons
Tare Weight:	188 pounds (+/- 5%)
Maximum Stack Weight[1]:	15,925 pounds (short term (<1 month), ambient temperature)
Molding Process:	High-pressure injection molding
Material:	Copolymer Polypropylene, U.V. stabilized
Approval:	FDA-regulated material
Container Design:	Double wall corner and center posts
Foot Design:	Three full-length feet with positive interlocking foot design
Fork Lift Entry:	Two-way: 3 1/2" opening with patented integral slide-entry
Label Holders:	Two
External Dimensions:	48 1/8" (L) x 48 1/8" (W) x 52 5/8" (H)
Internal Dimensions:	44 7/8" (L) x 44 7/8" (W) x 46 1/2" (H)
OPTIONS:	■ Customer identification with RFID tags or foil embossing ■ MacroLid ■ Available in blue (48-S only)

Specifications for the MacroBin 48-FV

Similar to 48-S except:	
Tare Weight:	185 pounds (+/- 5%)
Ventilation Slots:	1 3/4" (L) x 1/4" (W) in sides and base Hundreds of air vents in side panels and base to facilitate air flow; rounded surfaces on interior edges of slots

Notes: Dimensions assume tolerance of 1/8". Volume capacities assume tolerance of 5% and tare weights assume a tolerance of 4% unless noted otherwise. Ambient temperature approximately equal to 75° F. Data is subject to change.

[1] Stack Weight = (weight of bin contents + tare weight of bin) X number of bins in stack

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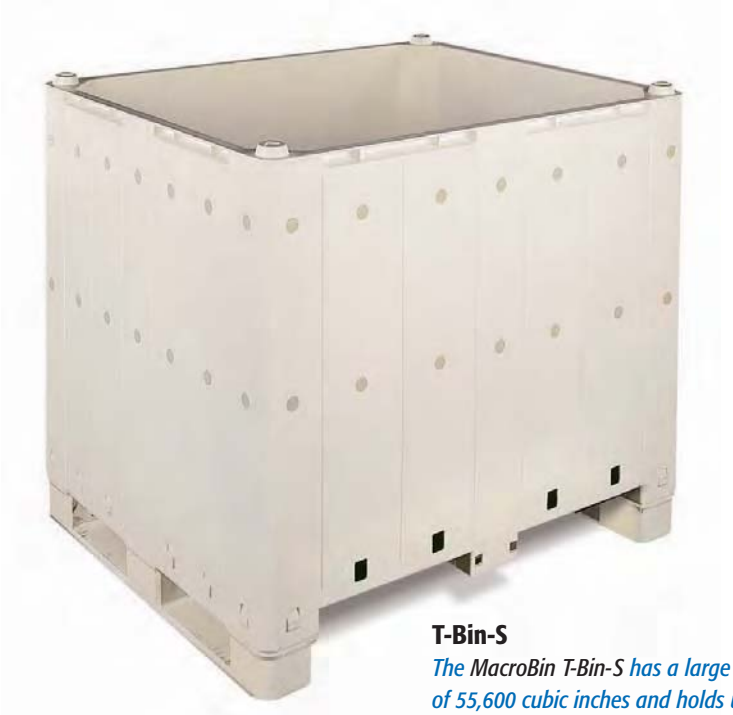
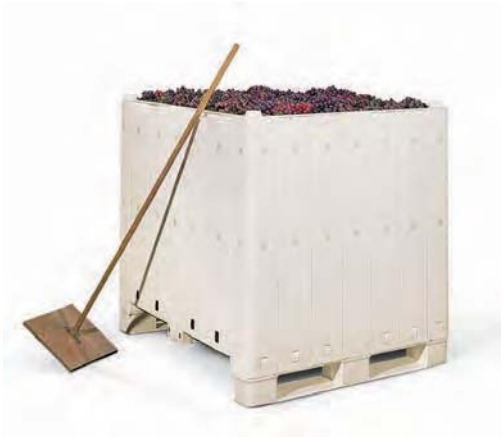
MacroBin® T-Bin-S

The **MacroBin T-Bin-S** with solid side panels and floor, double wall construction and a standard pallet footprint is ideal for food, beverage, and industrial applications.



T-Bin-S
The MacroBin T-Bin-S has a large bin capacity of 55,600 cubic inches and holds up to 2,000 pounds or 240.7 gallons of liquid.



With double wall construction, vintners find the MacroBin T-Bin-S is useful for small-lot fermentation.

Feature Highlights

- **Injection-molded, high-impact resistant copolymer** is splinter-resistant causing less damage to product and stands up to heavy day-to-day use. Bin repairs are inexpensive with hot air welding .
- **Lightweight construction** reduces shipping costs and makes T-Bins easier to move. This large capacity bin only weighs 127 pounds.
- **Insulated with double wall construction**, T-Bins are well-suited for refrigerated or frozen products.
- **FDA-approved materials** are certified safe for use with food and industrial products, eliminating many HACCP problems associated with corrugated containers.
- **Rounded corners and smooth surfaces** are friendly to your product and eliminate the need for expensive liners.
- **Nonporous surfaces** won't absorb water or dehydrate your product like corrugated containers, and they provide a constant tare weight throughout their use.
- **Easy-to-sanitize** MacroBins reduce cleaning costs. A high-pressure wash removes most debris; a non-abrasive brush can dislodge any remaining items.
- **Smart MacroBins** utilize securely-attached RFID tags to deliver improved tracking and traceability options.

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Benefits of Using MacroBins

Increased productivity.
Large container size and double wall construction expedites bulk handling.

Greater stack capacity.
The interlocking foot design makes T-Bins easier and safer to stack – stack capacity is 6,500 pounds.

Greater payload.
Convenient pallet-size footprint maximizes the interior cube space in trailers for a greater payload.

Reduced bin repair costs.
MacroBins are virtually maintenance free; repairs are easy with hot air welding.

Better sanitation and reduced contamination.
Smooth, nonporous surfaces are easy to sanitize and won't trap debris, breed bacteria, or absorb chemicals like wood bins.

Improved traceability and bin security.
Several identification methods including RFID tags and attractive foil embossing are available.

Specifications for the MacroBin T-Bin-S

Load Capacity:	2,000 pounds
Volume Capacity:	55,600 cubic inches / 240.7 gallons
Tare Weight:	127 pounds (+/-5%)
Maximum Stack Weight[1]:	6,500 pounds (long term, ambient temperature)
Molding Process:	High-pressure injection molding
Material:	Copolymer Polypropylene, U.V. stabilized
Approval:	FDA-regulated material
Container Design:	Double wall with vertical reinforced ribs full height
Insulation:	Insulated with double wall construction
Foot Design:	Positive interlocking feet with two full length feet and locating cones
Fork Lift Entry:	Four-way with patented integral slide-entry; foot side 3 9/16" opening, non-foot side 3 15/16" opening
External Dimensions:	39" (L) x 46 3/4" (W) x 43 1/8" (H)
Internal Dimensions:	36" (L) x 43 3/4" (W) x 36 3/8" (H)
OPTIONS:	■ Center foot (one pair per bin) ■ Middle foot for added floor support ■ Customer identification with RFID tags or foil embossing ■ MacroLid

Notes: Dimensions assume tolerance of 1/8". Volume capacities assume tolerance of 5% and tare weights assume a tolerance of 4% unless noted otherwise. Ambient temperature approximately equal to 75° F. Data is subject to change.

[1] Stack Weight = (weight of bin contents + tare weight of bin) X number of bins in stack

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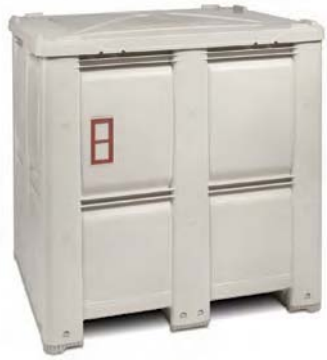
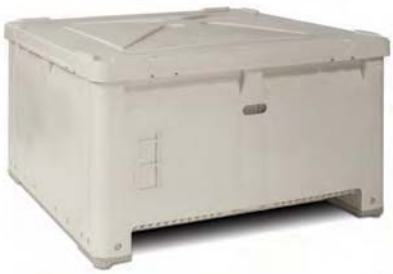
MacroLid® Injection-Molded Series

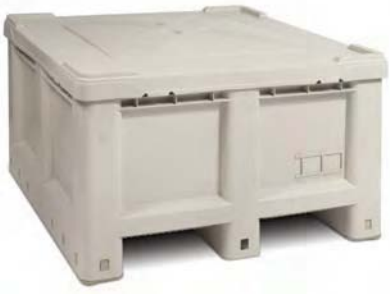
Manufactured with the same copolymer resin and high-pressure injection molding process as MacroBins®, **MacroLids** are now more durable and resist warping. They fit securely and remove easily, for quick product coverage or access.



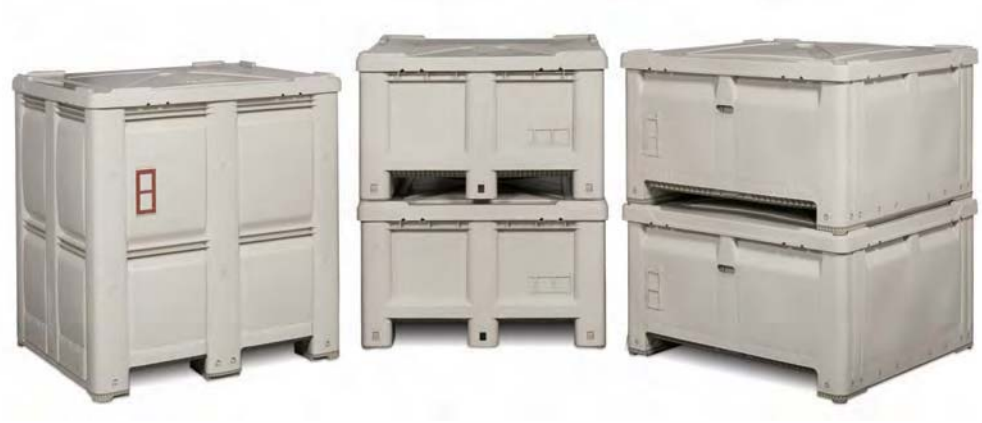
MacroLid 48 PP
The MacroLid 48 PP eliminates the need for expensive liners when used with the MacroBin 48-S for storing nuts and seeds.



MacroLid 26 PP
The MacroLid 26 PP fits securely on any 26 Series MacroBin and can be used for outdoor applications.



MacroLid 16-24 PP
The MacroLid 16-24 PP is designed with flanged sides to prevent contamination and infestation.



MacroLid Injection-Molded Series
The injection-molded family of MacroLids interlock with the MacroBin feet above creating a safe and stable bin stack during transportation or in storage.

Features and Benefits of Using MacroLids

- **Injection-molded, high-impact resistant copolymer** stands up to heavy day-to-day use, season after season. The injection-molded plastic resists warping unlike other processed lids.
- **Interlocking design and solid construction** allow MacroBins with MacroLids to be stacked with greater stability.
- **Easy-to-store** MacroLids nest within one another when not being used. The need for dunnage is eliminated and storage efficiency is increased.
- **Secure-fitting** MacroLids when used with MacroBins reduce the potential for product contamination.
- **Easy-to-sanitize** MacroLids help keep cleaning costs to a minimum. A high-pressure wash removes most debris; a nonabrasive brush can dislodge any remaining items.
- **Nonporous surfaces** won't absorb water or dehydrate your product, and just like MacroBins, they provide a constant tare weight throughout their use.
- **FDA-approved materials** are certified safe for use with food products.

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Feature Highlights

Reinforced Corner with Interlocking Feature.
Stack load is transferred straight down the bin column allowing for safe and sturdy stacking with MacroBins.

Center Dome with Four Flat, Angled Ramps.
Enhances rigidity and allows for water drainage on all four sides.

Lug Locators.
Provide visual aid and reduce the time it takes to disengage the MacroLid lugs from the MacroBin.

Center Ribs.
Strengthen MacroLids and help them to keep their shape even during incidental center loading.

Nesting Capabilities.
MacroLids nest within one another and can be stored without dunnage.

Specifications for the MacroLid 48 PP

Tare Weight:	17.7 lbs.
Maximum Lid Stack Height:	26 on a pallet
Molding Process:	High-pressure injection molding
Material:	Copolymer Polypropylene, U.V. stabilized
Approval:	FDA-regulated material
Lid Design:	Single piece, injection-molded
Length:	49 5/16"
Width:	49 5/16"
Height:	3 3/16"
OPTIONS:	■ No Lugs

Specifications for the MacroLid 26 PP^

Tare Weight:	16.2 lbs.
Maximum Lid Stack Height:	26 on a pallet**
Molding Process:	High-pressure injection molding
Material:	Copolymer Polypropylene, U.V. stabilized
Approval:	FDA-regulated material
Lid Design:	Single piece, injection-molded
Length:	49"
Width:	49"
Height:	3 1/4"
OPTIONS:	■ No Lugs

Specifications for the MacroLid 16-24 PP

Tare Weight:	16.8 lbs.
Maximum Lid Stack Height:	26 on a pallet**
Molding Process:	High-pressure injection molding
Material:	Copolymer Polypropylene, U.V. stabilized
Approval:	FDA-regulated material
Lid Design:	Single piece, injection-molded
Length:	48 5/16"
Width:	48 5/16"
Height:	3 1/2"
OPTIONS:	■ No Lugs

Notes: Dimensions assume tolerance of 1/8". Tare weights assume a tolerance of 4% unless noted otherwise. Data is subject to change. Please visit www.macroplastics.com for the most current specifications.

*** Pending field tests.*
^ Model available August 2008.

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