




eco-smart®

**biodegradable* plastic
food packaging** 





Biodegradable* plastic

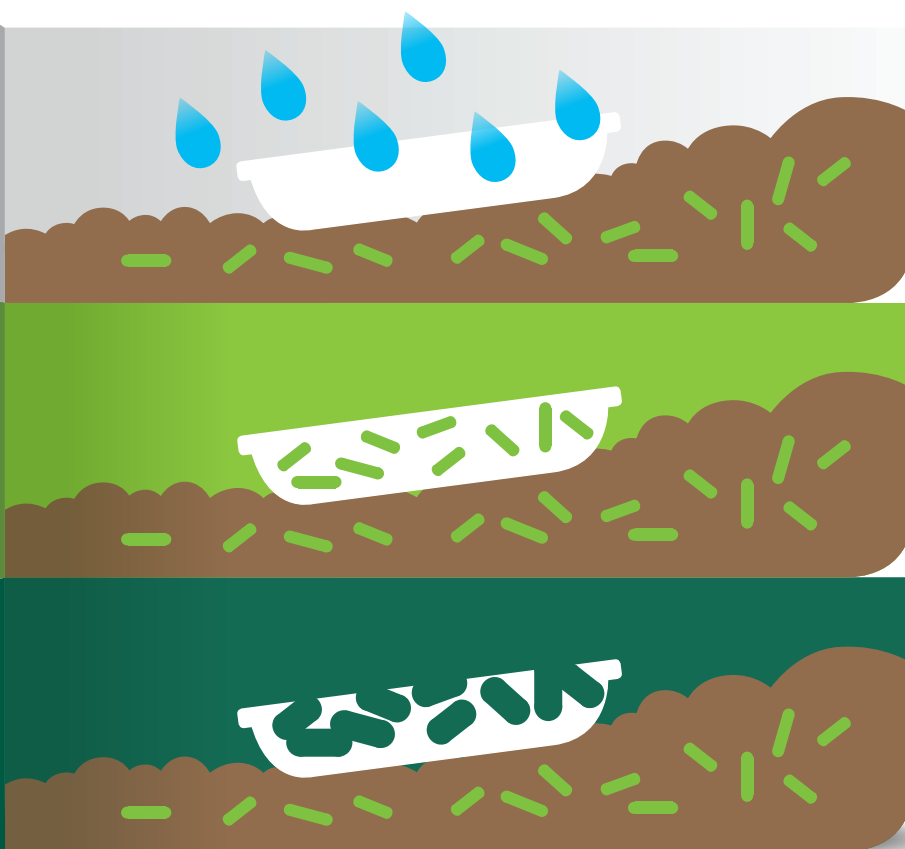
Increasingly, more of our plastic products are becoming biodegradable* with the addition of our industry leading Eco-Smart® biodegrading technology. This innovation allows traditional plastics to biodegrade* through a series of chemical and biological processes, when introduced to a microbe-rich environment such as a biologically active modern landfill. This process, unlike other *bio-plastics*, does not compromise recyclability.

How it works

Our Eco-Smart® additive allows plastic to biodegrade* through a series of chemical and biological processes, when introduced to a microbe-rich environment such as a biologically active modern landfill.

Eco-Smart® accelerates the biodegradation of treated plastics by attracting microbes – microscopic organisms vital to the earth's ecosystem.

These microbes colonise on the surface of the plastic where they secrete acids that break down the polymer chain, allowing them to utilise the carbon backbone of the chain as an energy source.



Frequently asked questions

Are products made with Eco-Smart® certified recyclable?

Currently there are no recognised standard certifications for recyclability. A number of independent laboratories have been provided with samples of plastic made with Eco-Smart®. The tests indicated that Eco-Smart® does not affect the recyclability of plastics.

What prevents plastics made with Eco-Smart® from degrading in storage or on the shelf?

Eco-Smart® treated products must be disposed of, or kept in active microbial environments, such as a biologically active landfill, in order to biodegrade.* Warehouse and retail environments do not contain the microbes needed for biodegradation, so plastics treated with Eco-Smart® have an unlimited shelf life and are completely non-toxic.

What is the manufacturing process for using additives?

Using the additive in the manufacturing process is easy to do and usually does not require any equipment modification. Eco-Smart® is added via a standard commercial gravimetric hopper, just as you would add a colorant into the extruder feed-throat. Eco-Smart® is usually loaded at 0.7–4% by weight.

Does Eco-Smart® contain any heavy metals?

Eco-Smart® does not contain any compounds that would be considered heavy metals, light metals or metal ions. Eco-Smart® is a combination of true organic compounds from oil and other nutrients found in the environment.

Does Eco-Smart® change the physical characteristics of plastic?

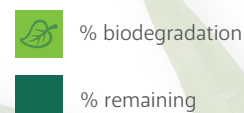
There are no noticeable changes to the physical characteristics of plastic such as tensile strength, glass temperature, melting temperature, transition rates, etc.

Does Eco-Smart® affect the plastic's performance at elevated temperatures?

No. Tensile strength and physical properties are maintained even in elevated temperatures. In temperatures exceeding the normal operating range for a specific resin, Eco-Smart® plastics would experience the same change in properties as the standard untreated plastic.

Ongoing Eco-Smart® Testing

The progress charts below show how Eco-Smart® products biodegrade over time. These tests are ongoing and the progress results will be updated as more data becomes available.



EPS Foam Cups



Polypropylene Cups



Polystyrene Lids, Plates, Bowls & Cutlery



P.E.T Containers



*Eco-Smart polypropylene cups have been shown to biodegrade 21.3% after 356 days; Eco-Smart polystyrene lids, plates, bowls & cutlery have been shown to biodegrade 24% after 216 days; Eco-Smart Foam cups have been shown to biodegrade 28.85% after 80 days; Eco-Smart P.E.T containers have been shown to biodegrade 22.5% after 356 days, under conditions that simulate a wetter biologically active landfill, using the ASTM D5511 standard test. Note that a stated rate of degradation does not mean the product will continue to decompose. Testing continues on all Eco-Smart products to track the rate of biodegradation. All data will be made available on our website: www.castawayfoodpackaging.com.au

eco-smart® Clearview® Food Bowls

Castaway® Clearview® food bowls feature exceptional clarity and durability. Air-tight lids ensure freshness, and a double-split hinge allows containers to be laid open on a bench for quick and easy filling. Multiple sizes are available, with flat or dome lids offering extra space for food items such as muffins and salads.



High clarity material for superior presentation



Air-tight seal keeps food fresh



Australian made in HACCP certified facilities



Ongoing biodegradation measured to ASTM D5511 standards



Made from recyclable P.E.T.

Dome lid bowls:

Code	Volume	Size D x H	Sleeve qty	Carton qty
CA-408DL	8 oz / 227 ml	116 x 45 mm	25	250
CA-4012DL	12 oz / 341 ml	116 x 55 mm	25	250
CA-4016DL	16 oz / 455 ml	116 x 70 mm	25	250
CA-6620DL	20 oz / 568 ml	170 x 40 mm	25	150
CA-6624DL	24 oz / 682 ml	170 x 60 mm	25	150
CA-6632DL	32 oz / 909 ml	170 x 70 mm	25	150
CA-6648DL	48 oz / 1364 ml	170 x 80 mm	25	150

Flat lid bowls:

Code	Volume	Size D x H	Sleeve qty	Carton qty
CA-408FL	8 oz / 227 ml	116 x 45 mm	25	250
CA-4012FL	12 oz / 341 ml	116 x 55 mm	25	250
CA-4016FL	16 oz / 455 ml	116 x 70 mm	25	250
CA-6615FL	3 comp / 568 ml	170 x 40 mm	25	150
CA-6620FL	20 oz / 568 ml	170 x 40 mm	25	150
CA-6624FL	24 oz / 682 ml	170 x 60 mm	25	150
CA-6632FL	32 oz / 909 ml	170 x 70 mm	25	150
CA-6648FL	48 oz / 1364 ml	170 x 80 mm	25	150





Our Eco-Smart® technology allows plastic to biodegrade* through a series of chemical and biological processes.



Recyclable - unlike polylactic acid(PLA), Eco-Smart® does not harm or change the recycling process in any way.

*Eco-Smart polypropylene cups have been shown to biodegrade 21.3% after 356 days; Eco-Smart polystyrene lids, plates, bowls & cutlery have been shown to biodegrade 24% after 216 days; Eco-Smart Foam cups have been shown to biodegrade 28.85% after 80 days; Eco-Smart P.E.J. containers have been shown to biodegrade 22.5% after 356 days, under conditions that simulate a wetter biologically active landfill, using the ASTM D5511 standard test. Note that a stated rate of degradation does not mean the product will continue to decompose. Testing continues on all Eco-Smart products to track the rate of biodegradation. All data will be made available on our website: www.castawayfoodpackaging.com.au



**8oz / 227ml
CA-408DL**



**12oz / 341ml
CA-4012DL**



**16 oz / 455ml
CA-4016DL**



**20oz / 568ml
CA-6620DL**



**24oz / 682ml
CA-6624DL**



**32oz / 909ml
CA-6632DL**



**48oz / 1364ml
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CA-6620FL**



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CA-6624FL**



**32oz / 909ml
CA-6632FL**



**48oz / 1364ml
CA-6648FL**



**20oz / 568ml
CA-6615FL**

3 compartment bowl for dip selections, nut mixes and confectionery



eco-smart[®] Clearview[®] Food Packs

Castaway[®] Clearview[®] packs feature hinged lids and are designed with presentation and durability in mind. With high clarity and a ribbed construction for extra strength, these containers are ideal for displaying a range of food items such as burgers, salads, and rolls.

Containers are stackable for easy storage and enhanced presentation.

Hinged lid



Small utility
CA-CVP070



Medium utility
CA-CVP071



Large roll
CA-CVRP025



Small salad
CA-CVP048



Large salad
CA-CVP049



Super salad
CA-CVP050



Small burger
CA-CVP046



Large burger
CA-CVP047



Jumbo burger
CA-CVP059



High clarity material for superior presentation



Ribbed construction for added strength



Australian made in HACCP certified facilities



Ongoing biodegradation measured to ASTM D5511 standards



Made from recyclable P.E.T.

Code	Description	Colour	External size	Internal size	Sleeve qty	Carton qty
CA-CVP070	Utility Pack, Small	Clear	155 x 110 x 85 mm	145 x 95 x 85 mm	100	300
CA-CVP071	Utility Pack, Medium	Clear	210 x 170 x 80 mm	200 x 155 x 80 mm	100	200
CA-CVRP025	Roll Pack, Large	Clear	240 x 115 x 80 mm	225 x 80 x 80 mm	100	400
CA-CVP048	Salad Pack, Small	Clear	165 x 120 x 60 mm	150 x 105 x 60 mm	100	500
CA-CVP049	Salad Pack, Large	Clear	190 x 120 x 60 mm	180 x 105 x 60 mm	100	500
CA-CVP050	Salad Pack, Super	Clear	225 x 145 x 65 mm	210 x 130 x 65 mm	50	200
CA-CVP046	Burger Pack, Small	Clear	110 x 100 x 65 mm	100 x 90 x 65 mm	250	1000
CA-CVP047	Burger Pack, Large	Clear	130 x 125 x 65 mm	120 x 120 x 65 mm	250	1000
CA-CVP059	Burger Pack, Jumbo	Clear	150 x 145 x 75 mm	135 x 130 x 75 mm	100	400

eco-smart® Clearview® Bakery Containers

Encourage impulse purchases with the range of high clarity Castaway® Clearview® Bakery Containers. These containers are an excellent solution for packaging cakes, muffins, donuts, tarts and more.



High clarity for excellent presentation



Ribbed construction for added strength



Australian made in HACCP certified facilities



Ongoing biodegradation measured to ASTM D5511 standards



Made from recyclable P.E.T.

Combo-Pak®



Four tart
CA-CVT4



Bar Cake
CA-CVBAR



Medium Utility
CA-CVUTLM

Combo-Paks® include lids and bases in the same carton.

Code	Description	Size	Carton qty
CA-CVT4	Four Tart Combo-Pak®	180 x 180 x 75 mm	270 bases + 270 lids
CA-CVBAR	Bar Cake Combo-Pak®	228 x 128 x 85 mm	300 black bases + 300 clear lids
CA-CVUTLM	Medium Utility Combo-Pak®	210 x 235 x 67 mm	300 black bases + 300 clear lids



Small Cake
CA-CVCD050



Medium Cake
CA-CVCD075



Large Cake
CA-CVCD100



80mm Cake
CA-CVCD080



Family Tart
CA-CVTFAM

Code	Description	Size	Carton qty
CA-CVCD050	Small Cake Combo-Pak®	198 x 50 mm	200 black bases + 200 clear lids
CA-CVCD075	Medium Cake Combo-Pak®	198 x 75 mm	200 black bases + 200 clear lids
CA-CVCD100	Large Cake Combo-Pak®	198 x 100 mm	200 black bases + 200 clear lids
CA-CVCD080	80mm Cake Combo-Pak®	180 x 80 mm	175 black bases + 175 clear lids
CA-CVTFAM	Family Tart Combo-Pak®	190 x 46 mm	250 black bases + 250 clear lids

Hinged lid



Four muffin pack
CA-CVP064



Double custard pack
CA-CVP074



Six iced donut pack
CA-CVP073



Six spiral donut clam
CA-CVDT6

Code	Description	Size	Sleeve qty	Carton qty
CA-CVP064	Four Muffin Pack	180 x 180 x 75 mm	100	200
CA-CVP074	Double Custard Pack	248 x 133 x 77 mm	100	200
CA-CVP073	Six Iced Donut Pack	273 x 192 x 51 mm	100	200
CA-CVDT6	Six Spiral Donut Pack	277 x 108 mm	-	350
CA-CVP051	Bar Cake Pack	221 x 123 x 115 mm	100	300



Bar cake pack
CA-CVP051

eco-smart[®] Coffee cup lids

Castaway[®] Eco-Smart[®] coffee cup lids have been designed with a SnapOn[®] fit around the cup for a safe and leak-free experience. The ergonomic design of the sipper has been created to provide a comfortable drinking position without the intrusiveness of a traditional spout. Castaway[®] coffee cup lids feature Eco-Smart[®] biodegrading* technology which allows the plastic to break down in a biologically active landfill.

-  Ongoing biodegradation measured to ASTM D5511 standards
-  Ergonomic lid design
-  Australian made in HACCP certified facilities
-  Made from recyclable polystyrene

classic lid system



combo lid system



eco-smart[®] Foam Cups

Castaway[®] Eco-Smart[®] foam cups are the first expanded polystyrene (EPS) foam cup on the foodservice market shown to biodegrade.* You don't have to modify your waste stream to complete the eco-friendly story.

-  Insulating properties of foam keep drinks at the desired temperature for longer
-  Ongoing biodegradation measured to ASTM D5511 standards
-  Suitable for hot and cold drinks
-  Australian made in HACCP certified facilities
-  Cups made from expanded polystyrene
-  Lids made from recyclable polystyrene



HL-06FC



HL-08FC



HL-012FC



HL-TLID8



HL-TLID12

Code	Description	Colour	Size	Sleeve qty	Carton qty
HL-06FC	Foam cup, small	White	6oz / 177 ml	25	1000
HL-08FC	Foam cup, medium	White	8oz / 237 ml	25	1000
HL-012FC	Foam cup, large	White	12oz / 355 ml	20	500
HL-TLID8	Sippa lid	White	Suits 8oz foam cup	100	1000
HL-TLID12	Sippa lid	White	Suits 12oz foam cup	100	1000

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eco-smart® Water Cups

Eco-Smart® polypropylene water cups are an economical and convenient option for water coolers in waiting rooms and offices. With Eco-Smart® biodegrading technology, these cups will also meet the sustainability goals of your organisation.

- ✓ **Size suits most standard water cup dispensers**
- ✓ **Ongoing biodegradation measured to ASTM D5511 standards**
- ✓ **Strong, durable and crack-resistant**
- ✓ **Made from recyclable polypropylene**
- ✓ **Australian made in HACCP certified facilities^**

Dispensers:

- ✓ **Strong stainless steel construction, wall mounted with two screw holes**
- ✓ **Clear window to show when refills are required**
- ✓ **Australian made in HACCP certified facilities**

Code	Description	Size	Sleeve qty	Carton qty
CA-PDW7	White water cup	7 oz / 200 ml	50	1000
CA-PDC7	Clear water cup	7 oz / 200 ml	50	1000
CA-FC8D	Dispenser	600 mm	–	1



eco-smart® Beer Cups

Eco-Smart® polypropylene beer cups are an excellent choice for events which require a safe alternative to glass. Eco-Smart® beer cups are weights and measures approved.

- ✓ **Weights and measures approved for alcohol service**
- ✓ **Safe alternative to glass – ideal for events, functions & catering**
- ✓ **Tapered base – fits in cup holder or carry tray without tipping**
- ✓ **Ongoing biodegradation measured to ASTM D5511 standards**
- ✓ **Australian made in HACCP certified facilities^**
- ✓ **Made from recyclable polypropylene**

Code	Description	Size	Sleeve qty	Carton qty
CA-PP285WM	Small Beer Cup	285 ml	50	1000
CA-PP425WM	Large Beer Cup	425 ml	50	1000



^Applies to Australian East Coast range only.

Superware® Plates and Bowls

Superware® plates and bowls are made from recyclable polystyrene to provide a strong, durable construction that makes them suitable for most catering applications.



Use for hot or cold food



Durable construction



Made from recyclable polystyrene



Ongoing biodegradation measured to ASTM D5511 standards



Australian made in HACCP certified facilities

Oval plates



CA-79OVL



CA-11OVL

Code	Description	Colour	Diameter	Sleeve qty	Carton qty
CA-79OVL	Oval side plate	White	7 x 9 inches / 170 x 225 mm	50	500
CA-11OVL	Oval dinner plate	White	9 x 11 inches / 225 x 275 mm	50	500

Round plates



CA-7RND



CA-9RND



CA-9RND3C



CA-10RND

Code	Description	Colour	Diameter	Sleeve qty	Carton qty
CA-7RND	Round side plate	White	7 inches / 175 mm	50	500
CA-9RND	Round dinner plate	White	9 inches / 225 mm	50	500
CA-9RND3C	Round dinner plate, 3 compartment	White	9 inches / 225 mm	50	500
CA-10RND	Round dinner plate	White	10 inches / 260 mm	25	200

Bowls



CA-5BWL



CA-7BWL

Code	Description	Colour	Diameter	Volume	Sleeve qty	Carton qty
CA-5BWL	Small bowl	White	5 inches / 125 mm	5 oz / 150 ml	50	1000
CA-7BWL	Medium bowl	White	7 inches / 175 mm	12 oz / 340 ml	50	500

Elegance® Plastic Cutlery

Add a touch of Elegance® to your tabletop setting with our range of biodegradable* premium cutlery. Larger and stronger than standard cutlery, diners can enjoy any type of meal without the worry of flimsy cutlery.



Textured handles for extra grip



Strong and durable



Ongoing biodegradation measured to ASTM D5511 standards



Made from recyclable polystyrene



CA-PCWF



CA-PCWK



CA-PCWSP



CA-PCWSOUP



CA-PCBF



CA-PCBK



CA-PCBSP

Code	Description	Colour	Dimensions	Sleeve qty	Carton qty
CA-PCWF	Elegance® premium plastic forks	White	173 mm	50	1000
CA-PCWK	Elegance® premium plastic knives	White	185 mm	50	1000
CA-PCWSP	Elegance® premium plastic spoons	White	155 mm	50	1000
CA-PCWSOUP	Elegance® premium plastic soup spoons	White	144 mm	50	1000
CA-PCBF	Elegance® premium plastic forks	Black	173 mm	50	1000
CA-PCBK	Elegance® premium plastic knives	Black	185 mm	50	1000
CA-PCBSP	Elegance® premium plastic spoons	Black	155 mm	50	1000





**Castaway® products are available through
foodservice packaging distributors.**

Please contact us for further information:

P: (07) 3853 5800

E: enquiries@mpmmarketing.com.au

To view the full range of Castaway® products, visit our website:

www.castawayfoodpackaging.com.au