

EXPANDED POLYSTYRENE PACKAGING SOLUTIONS

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BARNES
Innovation working for you



**Seafood & Produce
Packaging**

**Medical Chill-Chain
Logistics**

Temperature Sensitive

Shock Protection

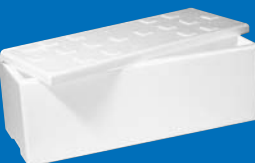

Boxes and containers

Name and dimensions					Part No.	Description	Pack size
	One Kilo Bin				KGB1NH KGB1	Without handle With handle fitted	60 12
		Vol.	Length	Width			
	Int.	2.8L	225	155			
	Ext.	.005m ³	270	180			
	Six Can Carrier				MC6NH MC6H	Without handle With handle fitted	30 30
		Vol.	Length	Width			
	Int.	5L	230	155			
	Ext.	.009m ³	260	180			
	Six Litre Box				SIXLB	Box & Lid	24
		Vol.	Length	Width			
	Int.	6L	235	175			
	Ext.	.010m ³	270	210			
	Midi Bin				BM90NH BM90	Without handle With handle fitted	12 12
		Vol.	Length	Width			
	Int.	10L	290	225			
	Ext.	.020m ³	330	270			
	14 Litre Fish Box				FTLFBK	Box & Lid	10
		Vol.	Length	Width			
	Int.	14L	500	300			
	Ext.	.023m ³	545	335			
	Small Chilly Bin				SB110NHK SB110HK	Without handle With handle fitted	10 10
		Vol.	Length	Width			
	Int.	15L	390	240			
	Ext.	.025m ³	430	280			
	Oyster Box				OB25K	Box & Lid	5
		Vol.	Length	Width			
	Int.	25L	405	335			
	Ext.	.040m ³	450	380			

Boxes and containers

Name and dimensions						Part No.	Description	Pack size
	Shallow Mark Five					MV100SHK	Box & Lid	5
		Vol.	Length	Width	Height			
	Int.	20.6L	550	375	100			
	Ext.	.036m ³	595	420	145			
	Mark Five Box					MV100K	Box & Lid	5
		Vol.	Length	Width	Height			
	Int.	25L	550	375	120			
	Ext.	.040m ³	595	420	165			
	Standard Box					L103K	Box & Lid	5
		Vol.	Length	Width	Height			
	Int.	28L	550	300	170	L103VK	Box & Ventilated Lid	5
	Ext.	.045m ³	600	350	220			
	Small Cray Box					BB100K	Box & Lid	4
		Vol.	Length	Width	Height			
	Int.	35L	545	370	180			
	Ext.	.056m ³	595	420	230			
	Large Cray Box					MIV132K	Box & Lid	4
		Vol.	Length	Width	Height			
	Int.	40L	545	370	200			
	Ext.	.061m ³	595	420	250			
	41 Litre Box					SB41K	Box & Lid	3
		Vol.	Length	Width	Height			
	Int.	41L	500	310	270			
	Ext.	.065m ³	555	365	320			
	Kina Box					OCEANKBK	Box & Lid	3
		Vol.	Length	Width	Height			
	Int.	33.5L	390	325	265			
	Ext.	.067m ³	465	400	360			

Boxes, containers and growing trays

Name and dimensions						Part No.	Description	Pack size
	Bushel Box					GB9K	Box & Lid	4
		Vol.	Length	Width	Height			
	Int.	36L	480	280	270			
	Ext.	.057m ³	545	335	310			
	Kingfish Box					KING1	Box & Lid	2
		Vol.	Length	Width	Height			
	Int.	46L	750	255	245			
	Ext.	.071m ³	800	300	295			
	Dairy Box					DB16K	Box & Lid	4
		Vol.	Length	Width	Height			
	Int.	46.5L	750	460	135			
	Ext.	.075m ³	805	515	180			
	Super Bin					SCB500HK SCB500K	Super Chilly with handles Super Bin no handles	3 3
		Vol.	Length	Width	Height			
	Int.	50L	450	365	300			
	Ext.	.077m ³	510	415	365			
	Hapuka Box					HAPU	Box & Lid	2
		Vol.	Length	Width	Height			
	Int.	71L	920	370	210			
	Ext.	.107m ³	980	420	260			
	Mushroom Tray					MSH1W	Moulded in white	5
		Vol.	Length	Width	Height			
	Int.	15.8L	400	330	120			
	Ext.	.021m ³	435	365	135			
	KG Seed Tray					ST91	Holes in base	10
		Vol.	Length	Width	Height			
	Int.	14L	506	300	95			
	Ext.	.021m ³	546	340	115			

Boxes, containers and growing trays

Name and dimensions						Part No.	Description	Pack size
	Mark Five Seed Tray					ST95	Holes in base	5
		Vol.	Length	Width	Height			
	Int.	25L	550	375	120			
	Ext.	.037m³	595	420	150			
	Manukau Hort. Seed Tray					ST96	Side slots & holes in base	5
		Vol.	Length	Width	Height			
	Int.	33L	500	375	160			
	Ext.	.047m³	595	420	190			
	Grobox 150mm					GBX150S GBX150HS	Side slots only	5
		Vol.	Length	Width	Height		Side slots & holes in base	5
	Int.	36L	540	440	150			
	Ext.	.054m³	600	500	180			
	Grobox 175mm					GBX175S GBX175HS	Side slots only	5
		Vol.	Length	Width	Height		Side slots & holes in base	5
	Int.	42L	540	440	175			
	Ext.	.062m³	600	500	205			

Custom moulded EPS packaging benefits

- Lower damage rates:**
EPS has an outstanding ability to dampen vibration and absorb impact shock, reducing handling and transport damage.
- Outstanding thermal efficiency:**
Products enclosed in EPS containers can be maintained for long periods at temperatures above or below ambient conditions and can be protected from sudden temperature changes that can occur in transport through different climatic zones.
- Moisture resistance:**
The low water absorption and water vapour permeability characteristics make EPS packaging ideal where moisture is a problem. EPS containers will not lose their strength even if wet.
- Enhanced product presentation:**
The clean white finish of EPS provides an excellent background to display your product. There are no shreds, shavings or dust to spoil the goods.
- Faster packaging time:**
EPS packaging is easily handled and does not require labour intensive assembly.
- Reduced warehouse costs:**
The strength and rigidity of EPS means that EPS packaged goods can be stacked to maximise vertical warehouse space. It is the package and not the product that supports the load.
- Reduced transport costs:**
The light weight of EPS reduces freight costs and energy consumption during transport.

Notes:

- Dimensions and volumes are approximate only as all boxes are slightly tapered.
- Units: Dimensions are in millimetres, Internal Volume is in litres, Shipping Volume is in cubic metres.
- External height includes the lid.

How Barnes is expanding your future



The manufacturing process of EPS

Expandable polystyrene (EPS) is supplied as plastic beads in which an expanding agent, usually pentane, has been dissolved. In the presence of steam the thermoplastic polystyrene softens and the increasing vapour pressure of the expanding agent causes the beads to expand up to 50 times their original volume. During this stage the degree of expansion is controlled to achieve the desired density.

Once expanded the material is allowed to stand in large silos to allow the infusion of air to replace the expanding agent, which stabilises the material.

The stabilised material is then transferred into closed moulds where it is further expanded and fused by again heating with steam.

EPS is a light weight, versatile, durable and economical material ideally suited to a wide range of uses from insulation, packaging and floatation to void filling and decorative finishes.

Isolite® block products

Manufactured primarily for the building industry and used in coolrooms, light weight panels, voids, building facades, wall, roof and floor insulation. It is also used in architectural design projects, marinas, pipe insulation, road construction and many other customer specified requirements.

EPS shape moulded products

These include Voidforms®, packaging for aquaculture, produce, white goods and other manufactured articles. Engineered components, drop test approved packaging for the computer industry and bicycle helmets are just a small cross-section of the shape moulding range.



Recycling

Barnes EPS can be recycled. Recycled EPS can be granulated for use in construction applications or blended to make a range of plastic products in everyday use including cassette casing and coat hangers.

Expanded polystyrene does not contain any ozone depleting substances and none is used in its manufacture.

Barnes pursues a policy of continuous improvement in the design and performance of its products. The right is therefore reserved to vary specifications without notice.

www.barnesplastics.co.nz

NEW ZEALAND

Barnes
368 Church Street
Penrose, Auckland 1061
PO Box 12014
Penrose, Auckland 1642
Telephone: +64 9 579 9725
Facsimile: +64 9 579 0472

AUSTRALIA

VICTORIA

2-4 Mephan Street
Maribyrnong VIC 3032
Locked Bag 51
West Footscray VIC 3012
Telephone: +61 3 9318 4422
Facsimile: +61 3 9317 7888

WESTERN AUSTRALIA

5 Baldwin Street
Kewdale WA 6105
Telephone: +61 8 9353 1000
Facsimile: +61 8 9353 2002

SOUTH AUSTRALIA

Peachey Road
Elizabeth West SA 5113
Telephone: +61 8 8255 8022
Facsimile: +61 8 8255 7939

TASMANIA

22 Merino Street
Kings Meadows TAS 7249
Telephone: +61 3 6344 5644
Facsimile: +61 3 6344 2913

NEW SOUTH WALES

27 Chifley Street
Smithfield NSW 2164
Telephone: +61 2 9609 6088
Facsimile: +61 2 9604 7747

QUEENSLAND

236 Musgrave Road
Coopers Plains QLD 4108
Telephone: +61 7 3277 4522
Facsimile: +61 7 3277 7761

