



EasyLy^o

SIMPLY STRONGER VIALS

A whole range of injectable molded glass vials with better chemical durability, greater physical strength and improved cosmetic quality for liquid and lyophilized drugs.





Injectable vials in molded glass

EasyLylo provides stronger packaging that is more resistant and suitable to extreme conditions encountered during the lyophilization process. EasyLylo is a range of Type I glass vials combining the strength of molded glass with superior cosmetic quality and weight reduction.

- ◉ Same composition as regular Type I
- ◉ Same production plant
- ◉ No regulatory change in Type I molded glass

Sterinity

DID YOU KNOW THAT?

20ml, 25ml and 50ml EasyLylo vials are also available in Ready-To-Use format (RTU), washed and sterilized.



Innovative design



Optimized base design to enhance heat transfer

EasyLylo range has been specially designed to improve heat transfer through the base of the vial during freeze-drying process. Our innovative design includes a flat bottom without stippling and an optimized radius.



High mechanical resistance

EasyLylo vials have a uniform wall thickness that offers reinforced physical resistance. Compared to tubular vials, EasyLylo vials are three to four times more resistant in terms of vertical load (stoppering stage) and twice more resistant in term of radial load (loading/unloading stage).



Better inspectability

EasyLylo vials show a noticeable improvement of cosmetic quality, compared to regular molded vials, thanks to a uniform thickness made possible by SGD Pharma specific technology.



Standard molded glass vial, 20ml




EasyLylo, 20ml



Tubular vial, 20ml

Wide range of sizes



Reference	Nominal capacity	Brimful capacity	Weight	Standard neck-finish	Height	Ø
03360	5	7	11.5	ISO 20	35.6	22
03331	10	14	15	ISO 20	47	25.2
20563	20	24	22	ISO 20	56	30
20572	25	30	25	ISO 20	64.9	30
20561	30	35	27	ISO 20	55.8	36
20560	50	58	49	ISO 20	68.5	42.5
20565	100	116	82	ISO 20	88.9	51.6

● Available in clear and amber glass

Higher performance proven during the lyophilization cycle

Technical study 1

Mechanical resistance test and the main breakage parameters during the lyophilization.

Dr Trappler of Lyophilization Technology - USA

Achievement

Under stress test conditions, the results clearly demonstrate the superiority of the EasyLyvo vials in terms of pressure resistance during the primary drying phase in the lyophilization chamber.

Where 100% of tubular vials and 80% of standard moulded glass vials broke, only 10 to 20% of EasyLyvo vials did so.

Added value for your products

These results are extremely significant, in particular for the packaging of certain cytotoxic molecules where container breakage can be hazardous to healthcare professionals.

Technical study 2

Heat transfer coefficient comparison between tubular vial and EasyLyvo vial.

Dr Gieseler of the University of Erlangen - Germany

Achievement

At practical pressure setting, the study demonstrates that EasyLyvo vials do not exhibit any major difference (lower than 5%) in term of heat transfer coefficient compared with premium tubular glass vials.

Added value for your operation

Together with better aggressive-cycle tolerance, EasyLyvo vials could increase net throughput and lower total cost.

Simply stronger vials

Controlled internal diameter

Minimize stopper pop-up and improve Container Closure Integrity

ISO 20mm

as per standard neck size for injectable

Uniform wall thickness to improve high mechanical resistance and inspectability

Cost and time savings

30%

less mass than standard molded vials

Improved energy cost and footprint

Same external dimensions as tubular vials for 20ml and 25ml

No major change needed on the filling line

Base mold marks removed to maximize heat transfer

Faster cycle time and cost saving

Optimized heel radius to improve high mechanical resistance

Cost and time savings

Flatter base to maximize shelf contact

Same cake result as tubular vials

To get the benefits of EasyLylo, please contact your local SGD Pharma representative

www.sgd-pharma.com

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