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Ever Felt Trapped By Putting Barcode On Your Products?



Producing a scannable barcode





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Key Steps to Consider





Choosing bar code colours

- Contrast is needed... bars should appear "black" and spaces "white" to the scanner (red light illumination ??)
- Bars may be black, blue, green cold colours
- Background may be white, red, yellow, orange





Colour - Symbol Contrast



Common combination of black bars on white background

Black bars on yellow space (utilising yellow background of product's packaging)





Colour - Symbol Contrast

White space on translucent green (hair gel) is not scannable





Black bars on solid white for space on transparent can



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Colour - Symbol Contrast



Metallic colours are not recommended for bars or spaces



Red is for space NOT bars







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Symbol Truncation

- Truncation limits POS scanning effectiveness
- Shorter symbol reduce the opportunity to get a good scan
- Do NOT truncate (shorten height).
- Only truncate when there is not room for full symbol height



Size



Human Readable Character in OCR-B

- EAN-13 bar code symbol is used on both the retail and non-retail/transportation units.
- Magnification limits for retail unit is from 80% to 200%.
- Height should be proportional to magnification of the bar code symbol.

Refer: Overall Dimensions of EAN-13 & EAN-8 Bar Codes Table, or Size Gauge



Size



EAN-8 Symbol for space constraint packaging

Symbol is truncated to fit the height of the box





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Light Margin Area (LMA)





ITF-14 Symbol Structure



- 50% to 62.5% magnification factor is not suitable for printing on corrugated carton.
- Height for bar code symbol which is intended for automatic scanning at the conveyor must be at least 32mm and printed at the highest magnification possible.



GS1-128 Bar Code Symbol



GS1-128 can encode a wide range of information (item ID, measurements, quantities, dates, batch numbers). Therefore it is used on non-retail/transportation unit when more than just GTIN is required.

- Magnification ranges from 25% to 100%
- In a general distribution environment, magnifications shall be between 50% to 100%
- Magnifications below 62.5% should not be printed directly on corrugated cardboard with conventional processes

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Height for bar code symbol must be at least 32mm



The bigger the better





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The "blank" area before and after the barcode is PART of the barcode these are the light margins.



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Basic Rules on Location for Retail Item

- Symbol should be placed towards lower right of a face.
- First preferred is on the back.
- Second preferred is on the side.
- Symbol should be printed on a flat surface.
- In the case of single unit and multi-pack, please ensure that the symbol on the single unit is clearly concealed on a multi-pack.
- Where possible, symbol should be printed at 8mm away from any curve, edge or overlap to avoid distortion, scuffing or damage to the symbol.
- In the case of curve surface such as on cylindrical container the symbol is normally printed in the ladder orientation.



Location - Ladder Style/Orientation

On curved surfaces, recommended placement for the bar code is in a ladder orientation when the item stands on end.







Only one symbol on a multi-pack





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Basic Rules on Location for Retail Item

Hidden Barcode, checkouts need to "find" it.





Symbol falls over the edge when packaging contained the product



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Locations of Bar Code on Non-Retail/Transportation Unit

- Two bar code labels on adjacent sides (a short side and the long side on the right) is recommended.
- At least one label on any side (except on the base)





Positioning of ITF-14 Symbol





Creases on blister pack affect the symbol scanability



Symbol placement, keep an eye open...





Improper Labelling



Sealing tape covers the symbol



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Shrink wrap is not properly done

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Get Creative!!!



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Creative barcodes





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How To Get The Barcode Tested?

Contact GS1 Malaysia for Barcode Verification Service



Questions?



Thank You

~ Please submit the Evaluation Form ~



Contact Details

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