

Replas Product Properties

PROPERTIES OF RECYCLED PLASTIC PRODUCTS

Air bubbles: Recycled plastic products may contain air bubbles. These occur as a result of the Replas manufacturing process. Air bubbles will not appear on the surface of the product and in no way affect the quality.

Colour variation: Replas makes a range of products utilising plastic that would otherwise go to landfill. The type and colour of the raw material that Replas reprocesses varies depending on supply, this can result in some colour variation in the finished product. Splashes and swirls may also occasionally occur on some products due to the injection process. As certain products are manufactured on different machines it may not be possible to exactly colour match items. This is an unavoidable part of the recycling process. While any variation is kept to a minimum due to high quality control standards, clients should be mindful of possible colour variation when ordering. Replas appreciates their customers understanding that they are purchasing recycled products.

Please note: when choosing colours for seating, black is to be avoided as it will reach a higher temperature than other colours.

Cupping: As Enduroplank™ is made from recycled plastic waste, cupping may occur during the manufacturing process. However, this does not affect the integrity or lifespan of the product. Any cupping, greater than 3.5 mm, detected during manufacturing will be rejected. Once produced, recycled plastic will not cup any further.

Flammability: As our products are made of plastic they will melt in extreme heat, such as bushfire. However, while plastic will melt, it does not release harmful toxins unlike treated timber.

Painting: Replas products never require painting. Should you choose to paint your Replas product, be aware that not all paints will adhere to the surface of the plastic. Once painted the product then requires maintenance.

Expansion and Contraction: Recycled plastic will expand and contract longitudinally depending on the temperature. It is not recommended that Enduroplank™, profiles, or slats be laid longitudinally due to this issue. Where a wider span is required, this information needs to be taken into consideration in the design process. Replas is happy to offer advice in this area, but takes no responsibility for any issues arising in an installation where products have been laid in this manner.



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Polymer knots: Some Replas products contain polymer knots. These knots occasionally occur in the moulding process, but do not affect the quality of the product. *Please note: knots are similar to ordinary timber knots.*

Size variation: Sizes quoted on our pricelist are approximate. Please allow up to 5 mm variation. Please allow for a 1-3 millimetre variation. Please note that with Enduroplank™: where boards need to suit, we advise that all cutting is done on site. Precision cutting between 1-5 millimetre is not possible at the Replas factory due to expansion and contraction issues.

Toxicity: Replas recycled-plastic products are inert and will have no detrimental effect on the environment. Alternate products may contain toxic metals such as arsenic and copper, which may leach into the environment.

UV statement: Recycled plastic contains approximately two per cent UV stabiliser, which extends the life of the product. However, depending on the climate, the colour may fade due to UV exposure. This is particularly relevant with blue and green colours. The quality or performance of the product will in no way be affected.

Slip resistance: When deciding if recycled plastic is suitable for your application, please consult your engineer. Consideration must be given to the planned use and specific application of the product to determine its suitability. Replas is happy to provide advice; however, Replas is not an engineering company. It remains the responsibility of the client to ensure the suitability of the product.

Please note: Slip resistance tests have been conducted on Enduroplank™ by Advance Technology Testing and Research (ATTAR) and the results are available on the website.

SPECIFIC PRODUCT PROPERTIES

Garden panel: Garden panels are suitable for sand pits and garden beds. Where garden panels are to be used as a retaining wall engineering advice should be sought.



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Depending on the installation, the amount of fasteners required may vary, please consult Replas for advice. This is particularly important where a continuous run of garden panels is to be used.

Sheeting: We cannot guarantee the colour consistency or recycled materials, which may result in spotty / speckled finish and variation in colour from batch to batch and from panel to panel within a batch. If exact colour consistency is required, use coloured virgin material.

Speed humps: Replas speed humps are guaranteed for one year against manufacturer defects. No guarantee is provided for fixings. Speed humps are designed for use in off-street parking areas. The product is not suitable to be driven over frequently by trucks. The product warranty will be void if evidence suggests frequent truck use.

Additional product properties that apply to specific Replas products

Enduroplank™

Replas products are affected by changes in temperature and will expand and contract as the temperature rises and falls.

For Enduroplank™ installations, you must take into consideration that the product will expand and contract longitudinally depending on the temperature. Replas is unable to accurately recommend the gap that should be left as it will depend on the temperature at the site on the day of installation and on the expected maximum temperature at the site in the future. Please note that expansion/contraction of the plank does not occur across the plank, thus a 5mm gap is recommended which then makes the plank 200mm when doing calculations.

As a guide, the value of 1.1×10^{-4} applies. This means that each one-metre length will expand by 0.11 mm for each degree Celsius change in temperature.

A one-metre length will expand or (contract) 2.2 mm for a 20 degree change in temperature.



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Installers who do not wish to use the above calculation may choose to use the 'rule of thumb' which applies to most situations, shown in the table below. This assumes a 20 degree difference between the installation temperature and the expected maximum temperature.

Length	1 metre	2 metres	3 metres	4 metres	5 metres	6 metres	7 metres	8 metres
Gap	3 mm	6 mm	9 mm	12 mm	15 mm	18 mm	21 mm	24 mm

This chart is a suggestion only regarding recommendations to installers. Enduroplank™ decking planks can be handled and machined using the same equipment used for handling timber components. Cut the planks with a circular saw with a narrow blade that has as few teeth as possible.

Enduroplank™ decking planks in brown have far more colour variation from batch to batch, or even throughout the same batch, than other Replas products. Enduroplank™ planks in brown may not be returned because the customer is dissatisfied with the differing shades of brown. Minimum order quantities apply.

Please take a moment to watch the installation tutorial video on the product page of our website, here: www.replas.com.au/prod_enduroplank.html