

1



High Safety

PVC has been safely used in disposable medical device applications for over 60 years

- One of the first applications of PVC dates back to the 1950's during the Korean War when PVC bags proved to be both safer and more reliable than glass for treating injured soldiers on the battlefield
- Stringent European Pharmacopoeia Monographs exist for PVC for use in disposable applications

2



Wide Diversity

PVC is extensively used throughout the healthcare industry including in

- Artificial skin in emergency burns treatment
- Blood and plasma transfusion sets
- Blood vessels for artificial kidneys
- Catheters and cannulae
- Blood bags
- Containers for intravenous solution giving sets
- Endotracheal tubing
- Feeding and pressure monitoring tubing
- Etc...

3



The widest range of benefits

PVC has made it possible for a patients and healthcare professionals to access many medical applications thanks to its

- Chemical stability
- Biocompatibility
- Clarity and transparency
- Sterilizability
- Flexibility, durability and dependability
- Compatibility
- Ease of processing
- Affordability
- Printability

4



The best value for money in healthcare

None of the alternatives to PVC in healthcare offer the same price-performance ratio

- The cost of replacing PVC medical devices with alternative materials would equate an annual increase of € 300 Million per year for the European healthcare industry
- PVC flooring offers both the lowest initial cost and the lowest cost of ownership compared to some alternative materials over their entire lifetime

PVCMed
Alliance

10 Key

reasons to choose
PVC in healthcare
applications

Contact us!

For more information on PVC medical applications or how to support the PVCMed Alliance, please contact :

www.pvcmed.org

5



Limitless design capabilities

There are almost infinite design options with PVC

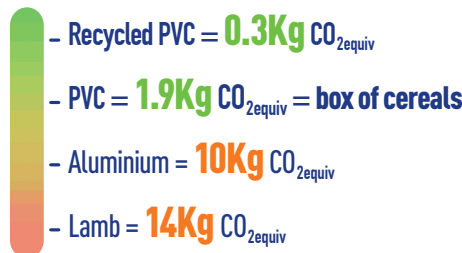
- Complex medical devices made from PVC are simply not achievable in any other single polymer
- Vinyl allows architects free rein in and around the hospital including in flooring, ceiling and wall covering

6



Low carbon footprint

PVC's footprint is equivalent to that of a box of cereals and recycled PVC has an even lower carbon footprint



* Value based on mass (1Kg) of product

7



Continuous innovation

Companies within the PVC value chain have invested in research and innovation and have progressively made available a wide range of plasticisers, such as:

- DOTP
- DINCH
- DINP
- ATBC
- TOTM
- And many more...

These are used in a variety of medical applications allowing healthcare professionals to benefit from PVC's unique properties and performances.

8



Less fossil fuel

...than all other commodity plastics

43% oil /natural gas
+
57% salt
=
Vinyl

9



Recyclability

Through VinylPlus – the PVC industry has developed numerous recycling schemes including in the healthcare sector

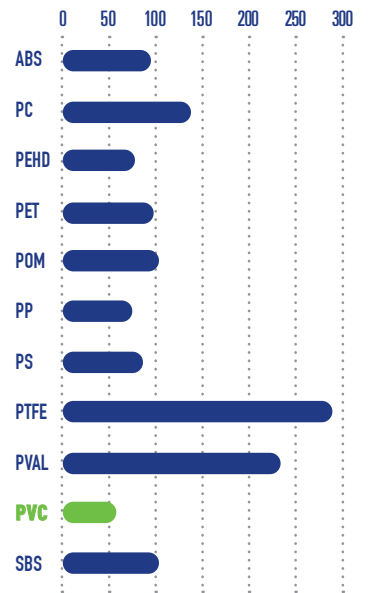
- Over 73,000 tons of flexible PVC including flooring was recycled in 2013 in Europe
- Following the success of recycling certain PVC medical devices in Australia, pilot PVC recycling schemes are now underway in Sweden, Denmark and the UK

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10

Less Primary Energy

...than all other commodity plastics



Non renewable primary energy in MJ/KG polymer granulate

Source: Software GaBi 4 Database - PE Europe