



Agoralaan Abis • 3590 Diepenbeek
Tel: +32(0)11/28.69.02 • www.bedal.be

Component overview

Reference: 24 ov-Component overview

Date created	November 4, 2015
Release date	November 8, 2015
Author	Alexander Van Damme
Organization	Bedal NV
Version	V2.0

Overview of materials and data sheets

The Bedalpatch consists of several materials, the different materials are listed below, with a short description.

Component	Description
Transparent Polyurethane film	Transparent PU film with high MVTR, high stretchability and high puncture resistance
Adhesive tape top patch - layer 1	Medical grade, skin friendly acrylic tape with high adhesion force and low skin sensitivity
Adhesive tape top patch - layer 2	Acrylic tape with strong liner to provide structure
Non woven tape bottom patch	Medical grade, skin friendly non-woven acrylic tape with high adhesion force and low skin sensitivity.
PVC snap part	Soft and hard PVC part, with DOTP plasticizer (not DEHP)

Advantages of the selected materials

The transparent Polyurethane film:

A PU film was selected due to its high breathability (Moisture Vapor Transmission Rate), this ensures that no condensation builds up underneath the patch. Also the PU film has a high puncture resistance, is transparent and feels soft to the touch.

Adhesive top patch

The top patch adhesive is a combination of 2 layers, 1 layer (skin side) made from the skin friendly medical, the second layer provides structural strength to the overall patch. The combination of these two layers leads to: a strong skin-friendly adhesion (non-sensitizing and non-cytotoxic), low primary skin irritation index and a high structural strength, leading to a higher usability.

Non woven tape bottom patch



Agoralaan Abis • 3590 Diepenbeek
Telefoon: 011/28.69.02 • www.bedal.be

The non woven used for the bottom patch, is a medical non woven tape with a high adhesive strength, a low skin-irritation index, and also non-sensitizing and non-cytotoxic. The non-woven has a good conformity with the skin surface.

PVC snap part

The snap part is made from PVC (Poly Vinyl Chloride), a common medical plastic. The PVC is used in both a hard and a soft variant, to create the watertight seal. The selected PVC does not use DEHP as plasticizer, since indications exists that long term exposure to these plasticizer could have negative effects. DEHP stands for bis(2-ethylhexyl) phthalate, and is a phthalate that is used as a plasticizer for the PVC. The selected plasticizer is DOTP, an alternative to DEHP without these negative indications on long term exposure.