Adhesive Tapes

INDICATOR FOR STERILIZATION PROCESSES

Sicad Group

The adhesive tape experience
With his brand Eurocel®, the Sicad Group has been a pioneer in the development of stationery tapes in Europe. Since 1972, starting with office and stationery supply, Sicad has built its “Adhesive Tapes Experience” and today it is a world-leading company in the manufacturing of a wide range of adhesive tapes. We deliver to our customers around the globe from our factories in France, South Africa, Croatia, Brazil and from the HQ in Italy. Thanks to its know-how, Sicad covers all existing coating technologies. Our mission is to share our “Adhesive Tape Experience” with our customers.
The range of adhesive tapes for sterilisation is specially designed for preparing the material to be treated and also to provide a visual indication through the change in the colour of the print that the tape has undergone a sterilisation cycle.

The backing of the sterilisation adhesive tape is composed of a strong semi-crepe saturated paper which gives excellent conformability during application.

The special adhesives ensure an excellent bond on paper, plastic, non-woven fabrics, wood, metal, glass and canvas. Some versions leave no adhesive residue when they are removed after the sterilisation cycle.

The indicator ink printed on the tape surface changes colour when exposed to the specific sterilisation method for which it is designed.
Steam sterilization
Lead free process indicator tape designed for steam sterilization systems. The colour print changes from light green to medium/dark green as proof of exposure to a saturated steam sterilization cycle. Complies with EN ISO 11140-1:2014 Type 1 e1 standard.

<table>
<thead>
<tr>
<th>BACKING</th>
<th>ADHESIVE</th>
<th>COLOUR</th>
<th>TOTAL THICKNESS</th>
<th>ADHESION</th>
<th>TENSILE STRENGTH</th>
<th>ELONGATION TO BREAK</th>
<th>TEMPERATURE RESISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturated paper</td>
<td>Natural rubber</td>
<td>White (green ink)</td>
<td>0.120 mm</td>
<td>6.5 N/25mm</td>
<td>85 N/25mm</td>
<td>4.5 %</td>
<td>/</td>
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</tbody>
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Steam sterilization without indicator
Single sided steam sterilization tape without indicator; no visible evidence that the tape has been through the sterilization cycle.

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<th>TEMPERATURE RESISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturated paper</td>
<td>Natural rubber</td>
<td>White</td>
<td>0.135 mm</td>
<td>4 N/25mm</td>
<td>100 N/25mm</td>
<td>7 %</td>
<td>/</td>
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EO Sterilization
Single sided tape with process indicator, for use in ethylene oxide sterilization (EO). Highly-adhesive also on the most challenging materials. The colour of the print on the outside of the tape turns from light yellow into dark green/blue after exposition to the EO sterilization process. The tape is compliant with EN ISO 11140-1:2014 standards Type1 e1.

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<th>ELONGATION TO BREAK</th>
<th>TEMPERATURE RESISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturated paper</td>
<td>Natural rubber</td>
<td>White (pale yellow ink)</td>
<td>0.130 mm</td>
<td>6.25 N/25mm</td>
<td>115 N/25mm</td>
<td>7 %</td>
<td>/</td>
</tr>
</tbody>
</table>
COLOR INDICATOR
Before: LIGHT GREEN
After: MEDIUM DARK GREEN

COLOR INDICATOR
Before: GREEN
After: BROWN

COLOR INDICATOR
WITHOUT INDICATOR

COLOR INDICATOR
Before: LIGHT YELLOW
After: DARK GREEN/BLUE
HOW TO CHOOSE A SELF-ADHESIVE TAPE

Although self-adhesive tapes can be applied on almost any material, it is always advisable to verify the application parameters and conditions of use before choosing the tape.

Application surface

Although self-adhesive tapes are usually compatible with most materials and application surfaces, some materials have anti-adhesive properties or low compatibility with the chemical composition of certain adhesives. In some cases, adhesion may be affected by the excessive interaction between adhesive and material/surface. For this reason, carrying out a compatibility test is fundamental.

CONDITION OF USE

The tape should be applied at a temperature of 15°C and 25°C in a dry environment; it is advisable not to apply the tape at temperatures below 10°C. Note that at lower or higher temperatures, the tape may react differently, depending on chemical composition or formulation.

For maximum efficiency take the following into account:

· The substrate must be dry and free of dust
· Do not apply tape on surfaces which have been treated or contaminated with anti-adhesive materials
· Do not use paints which contain additives which may reduce adhesive properties
· The surface must be free of plasticizers or other chemical agents incompatible with the tape
· Tape adheres best to smooth surfaces
· When dealing with rough or irregular surfaces use tape with a higher adhesive coating weight
· Always test tape on a substrate to insure that there is no adhesive residue.

STORAGE OF TAPES

It is recommended that tape be stored at a temperature of 15°C to 25°C with a maximum relative humidity of 65%; material must therefore be kept away from heat sources, if possible in its original packaging and avoid exposure to light. In case of storage at temperatures below 10°C tapes must be brought to room temperature before use.

TAPE SHELF LIFE

The functional characteristics of the adhesive tapes are generally maintained for a period of no less than 12 months unless otherwise stated by the manufacturer.

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