

REACTIVE PRESSURE-SENSITIVE FIXING AND ADHESIVE FILM

BACKGROUND

State of the art reactive adhesives are applied in a wide range of different industries, such as the automotive industry, optics, microelectronics, and medical industries. However, all currently existing solutions show at least one of the following major drawbacks: short processing window before curing, tricky handling, complex initiation procedure ("classical" UV curing – only where light can access the material, can be cured), long curing time. The described invention offers a solution to those issues.

TECHNOLOGY

The invention stands out due to the fact, that initially flexible and storage-stable fixing and adhesive films comprising the given compositions can be cured extremely quickly on-demand using a short, localized UV or heat impulse.



Furthermore, the handling of such films before curing is drastically facilitated for the user, due to much longer processing windows. In addition to that, areas, where the light cannot access the material can be cured easily with the presented technology. Fixing and adhesive tapes comprising the given compositions can be used to fix objects in specific positions as well as to glue objects of various materials together and can be used to manufacture products like e.g. pressure-sensitive adhesive tapes, fixing tapes or repair wraps.

BENEFITS

- Easy handling prior to curing
- On-demand curing initiated by short UV/heat trigger
- Extremely fast curing adhesives



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APPLICATIONS:

Adhesive films
Pressure-sensitive,
adhesive tapes
Fixing tapes
Repair wraps

KEYWORDS:

Adhesive film, fixing
tape, on-demand
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IPR:

AT and PCT pending

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