

tesa® 51903

Double-sided self-adhesive tape without liner

tesa® 51903 is a double-sided adhesive tape, consisting of a PVC-film without liner.

The adhesive on both sides is exactly balanced, so that tesa® 51903 can be unwound easily, even after long periods in storage.

Main Application

- Mounting of light weight parts
- Splicing of various materials such as plastic, metal foils, paper and cardboards.
- The acrylic-mass system has different adhesion values on each side. tesa® 51903 is therefore especially suited as closure system even for thin film bags.

tesa® 51903 is also used for mounting in the lithography industry.

Technical Data

▪ Backing material	PVC film	▪ Type of adhesive	acrylic
▪ Color	transparent	▪ Elongation at break	40 %
▪ Total thickness	86 µm	▪ Tensile strength	35 N/cm

Adhesion to

▪ Steel (initial)	2.4 N/cm	▪ Steel (after 14 days)	3.0 N/cm
▪ ABS (initial)	2.8 N/cm	▪ ABS (after 14 days)	2.0 N/cm
▪ Aluminium (initial)	1.5 N/cm	▪ Aluminium (after 14 days)	2.5 N/cm
▪ PC (initial)	2.7 N/cm	▪ PC (after 14 days)	1.8 N/cm
▪ PE (initial)	1.2 N/cm	▪ PE (after 14 days)	1.8 N/cm
▪ PET (initial)	1.8 N/cm	▪ PET (after 14 days)	2.2 N/cm
▪ PP (initial)	1.7 N/cm	▪ PP (after 14 days)	2.4 N/cm
▪ PS (initial)	2.7 N/cm	▪ PS (after 14 days)	2.7 N/cm
▪ PVC (initial)	1.8 N/cm	▪ PVC (after 14 days)	2.5 N/cm

Properties

▪ Temperature resistance short term	70 °C	▪ Resistance to chemicals	●●
▪ Temperature resistance long term	60 °C	▪ Softener resistance	●
▪ Tack	●●●	▪ Static shear resistance at 23°C	●
▪ Ageing resistance (UV)	●●●●	▪ Static shear resistance at 40°C	●
▪ Humidity resistance	●●●●		

Evaluation across relevant tesa® assortment: ●●●● very good ●●● good ●● medium ● low

For latest information on this product please visit <http://l.tesa.com/?ip=51903>

tesa® products prove their impressive quality day in, day out in demanding conditions and are regularly subjected to strict controls. All technical information and data above mentioned are provided to the best of our knowledge on the basis of our practical experience. They shall be considered as average values and are not appropriate for a specification. Therefore tesa SE can make no warranties, expressed or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. The user is responsible for determining whether the tesa® product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you.