



# tesa® 51920

## Product Information



200µm white double-sided film tape

### Product Description

tesa® 51920 is a white double-sided tape consisting of a PP-film backing and an acrylic adhesive.

The tape is designed for customer operating under cold temperature or in unheated production environments. Normally, pressure-sensitive adhesive tapes are facing problems in cold environments due to an insufficient level of tack, which ultimately leads to a significantly lower bonding performance. Where other tape technologies fail, our tesa® 51920 shows an impressive performance at very low temperatures. These superior cold processible characteristics are a result of this product's unique adhesive formulation.

tesa® 51920 features especially:

- Excellent bonding opportunities down to -10°C
- Secure bond even on high surface energy substrates (e.g. steel) and medium surface energy substrates (e.g. ABS)
- Outdoor suitability
- Unique blue liner in combination with this film tape to indicate its cold performance properties

### Application Fields

- Bonding of plastic trims and profiles
- \* Mounting of edge profiles on plastered surfaces
- \* Mounting of profiles and signs in industrial, walk-in or commercial refrigerators

### Technical Information (average values)

The values in this section should be considered representative or typical only and should not be used for specification purposes.

### Product Construction

• Type of liner	PE	• Color	white
• Backing material	PP film	• Colour of liner	blue
• Type of adhesive	acrylic	• Thickness of liner	100 µm
• Total thickness	200 µm		



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### Properties/Performance Values

• Elongation at break	20 %	• Static shear resistance at 40°C	medium
• Tensile strength	133 N/cm	• Tack	very good
• Ageing resistance (UV)	very good	• Temperature resistance long term	60 °C
• Chemical resistance	good	• Temperature resistance min.	-40 °C
• Softener resistance	medium	• Temperature resistance short term	110 °C
• Static shear resistance at 23°C	medium		

### Adhesion to Values

• ABS (initial)	12 N/cm	• Steel (initial)	11 N/cm
• ABS (after 14 days)	13 N/cm	• Steel (after 14 days)	13 N/cm

### Additional Information

Liner variants:

PV1 = white PE-coated paper liner (122µm thickness)

PV15 = blue HDPE film liner (100µm thickness)

Certificates & documents:

\* Certificate of conformity for bonding of labels of shelves in icehouses (corresponding with LFGB, directives 2011/10/EC, 1935/2004/EC, 19/2004/EC and German Consumer Goods Act)

\* LEED assessment (VOC content acc. to ASTM D 2369-10)

\* Byggvarubedömningen's conformity (Sweden)

Temperatures below 0°C can lead to frosted/iced surfaces. Bonding to such surfaces will not enable our product to be used in a safe and permanent way. Therefore, it's of high importance to reduce any surface contamination including ice and frost before bonding.

For latest information on this product please visit <http://l.tesa.com/?ip=51920>



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### Disclaimer

tesa<sup>®</sup> products prove their impressive quality day in, day out in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa<sup>®</sup> 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.

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