



TBP Converting, Inc.
TESA 51970 PDS

tesa 51970
Double Sided Transparent Filmic Tape

Product Description/ Application:

tesa 51970 is a transparent double sided self-adhesive tape consisting of a PP film backing and a modified acrylic adhesive.

tesa 51970 features esp.

- an excellent combination of a high initial tack and adhesion level,
- a secure bond even on critical materials such as PP and PE and rough surfaces,
- a good temperature resistance.

tesa 51970 is used for applications like

- Mounting of plastic and wooden trims,
- Mounting of heavy decorative materials and displays,
- Mounting of transparent signs and scales.

Product Design:

Backing	Adhesive	Thickness*	Colour
PP	tackified acrylic	220 µm	transparent

Liner:

Colour	Type	Thickness*	Weight*
brown	glassine paper	65 µm	83 g/m ²
white	glassine paper	65 µm	83 g/m ²
white	glassine paper	84 µm	100 g/m ²
White	MOPP film	80 µm	72 g/m ²
red	MOPP film	80 µm	72 g/m ²

* Mean values / parameter of the specification

Dimensions:

Stock Items	
50 m (with brown glassine paper)	12, 19, 25, 38, 50, 1000 mm
2000 m (with brown glassine paper) (with red MOPP film)	19 mm
2500 m (with brown glassine paper)	15 mm
3000 m (with brown glassine paper) (with red MOPP film)	12 mm
4000 m (with brown glassine paper) (with red MOPP film)	9 mm
5000 m (with brown glassine paper)	6 mm

Other dimensions on request

Technical Data tesa 51970

Mean values / parameters of the specification

Peel adhesion on different surfaces:

	immediately [N/cm]	after 14 days [N/cm]
Steel	13,0	16,2
Aluminium	10,2	12,8
ABS	11,3	14,4
PC	12,3	15,0
PS	11,8	13,4
PET	9,9	12,5
PVC	10,5	15,1
PP	6,8	8,8
PE	5,4	6,8

Temperature resistance

Short Term	150 °C
Long Term	80 °C

Mechanical properties

Tensile strength	≥ 75 N/15mm
Elongation	≥ 200 %

Results of laboratory evaluation

Static shear resistance (1000 g / 13 mm x 20 mm)

23°C	+
40°C	+

Tack (Rolling Ball)	+
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Softener resistance	+
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Humidity resistance	++
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Solvent resistance	+
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Ageing resistance (UV)	good
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PRODUCT INFORMATION

Evaluation:	very good (++)	good (+)	medium (O)	low (-)
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Quality
management

Internal page - Product information

Product name and -number: tesa 51970

Date of last Version:	Date of Alteration	Subject of Alteration	Kst / PM	Kst. / F & E
	06/00	Modification layout, adding of technical data	3510/ Strotmann	3244/ Lohmann
	04/02	Modification stock items	7100/ Grostabussiat	

tesa self-adhesive tapes are used successfully in many sectors to solve a variety of problems. Our publications contain numerous examples of such uses, intended to help towards a solution of your particular problems. Each tesa product has been developed for a particular range of applications. Nevertheless, experience has shown that even for one and the same objective, the exact requirements may differ from case to case. We, therefore, recommend that you carry out your own tests in each case, to confirm that the tesa self-adhesive tape which you envisage using is appropriate for your particular application. The Advisory Section of our Technical Service Department will be happy to assist. All information and recommendations are given by us in good faith, on the basis of practical experience, but without warranty.

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