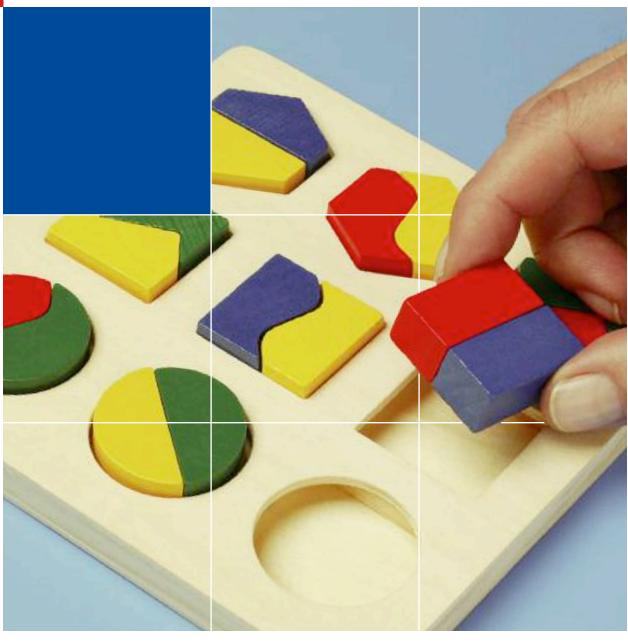


There Is More Than One Solution For Your Fastening Needs



tesa Double-Sided Tapes for Industrial Fastening Applications

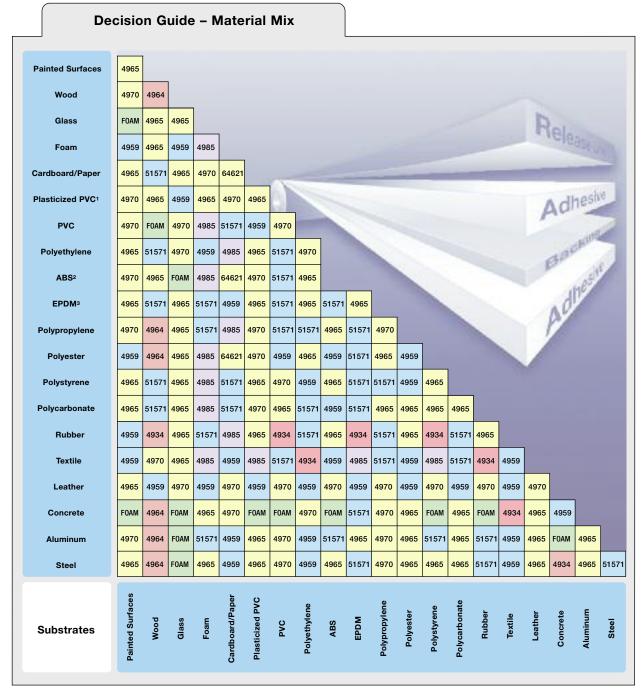


The Product Mix

The new tesa Double-Sided Tape Assortment consists of numerous specialized tapes. These products are segmented into two groups:

- 1) Core Assortment consisting of 11 tapes
- 2) Complementary Products 19 alternative tape solutions

The following table shows the material combinations which can be bonded with the 11 core products (product numbers noted in each box). The colors indicate the different types of backing material.



	Film Tapes
	Non-woven Tapes
	Cloth Tapes

Foam Tapes
Transfer Tapes

- 1 Polyvinyl Chloride
- 2 Acrylonitrile Butadeine Styrene
- 3 Ethylene Propylene Diene Monomer



tesa Double-Sided Tapes

Core Tapes	re Tapes Backing Adhesive Thickness (mils) Peel Adhesion (oz/inch) to steel (mm-14 days)		Temp. Resistance		
tesa® 4965	PET	modified acrylic	8	90	392°F/176°F
tesa® 4970	PVC	modified acrylic	9	110	160°F/140°F
tesa® 64621	PP	synthetic rubber	3.5	73	160°F/140°F
tesa® 62932	PE Foam	modified acrylic	20	>155	176°F/176°F
tesa® 62934	PE Foam	modified acrylic	32	>155	176°F/176°F
tesa® 62936	PE Foam	modified acrylic	64	>173	176°F/176°F
tesa® 4959	Non-Woven	modified acrylic	4	56	392°F/176°F
tesa® 51571	Non-Woven	synthetic rubber	6.3	138	160°F/140°F
tesa® 4985	Transfer	modified acrylic	2	50	392°F/176°F
tesa® 4964	Cloth	natural rubber	15	40	212°F/140°F
tesa® 4934	Cloth	synthetic rubber	11	91	160°F/140°F
Complementary Tapes	Backing	Adhesive	Thickness [mils]	Peel Adhesion [oz/in] to steel (mm-14 days)	Temp. Resistance
tesa® 4968	PVC	modified acrylic	12.5	180	160°F/140°F
tesa® 4980	PET	modified acrylic	3.1	70	392°F/176°F
tesa® 4982	PET	modified acrylic	4	68	392°F/176°F
tesa® 51970	PP	modified acrylic	9	100	302°F/158°F
tesa® 51977	PP	modified acrylic	9.5	105	302°F/158°F
tesa® 64620	PP	synthetic rubber	7	89	160°F/140°F
tesa® 4952	PE Foam	modified acrylic	46	>73	176°F/176°F
tesa® 4976	PUR Foam	modified acrylic	22	109	392°F/176°F
tesa® 4977	PUR Foam	modified acrylic	32	82	392°F/176°F
tesa® 51930	PUR Foam	modified acrylic	32	100	212°F/140°F
tesa® 62872	PE Foam	pure acrylic	20	>180	176°F/176°F
tesa® 62875	PE Foam	pure acrylic	36	>200	176°F/176°F
tesa® 64958	PE Foam	synthetic rubber	40	>36	176°F/176°F
tesa® 4961	Non-Woven	synthetic rubber	9.2	54	212°F/140°F
tesa® 4962	Non-Woven	modified acrylic	7	95	392°F/176°F
tesa® 51575	Non-Woven	water-based acrylic	3.5	40	400°F/176°F
tesa® 4987	Transfer	modified acrylic	5	81	392°F/176°F
tesa® 4900	Transfer	pure acrylic	2	30	400°F/176°F
NOPI™ 7002	Transfer	modified acrylic	1.6	25	360°F/32°F

 ${\bf PET-Polyester} \ / \ {\bf PVC-Polyvinyl\ Chloride} \ / \ {\bf PP-Polypropylene} \ / \ {\bf PE-Polyethylene} \ / \ {\bf PU-Polyurethane}$



The tesa Double-Sided Tape Assortment Offers Professional Solutions

As a market leader in many regions, tesa has developed a wide range of professional solutions for many industrial fastening applications. tesa's own research and development experts and production specialists in plants around the world have a wealth of experience and know exactly which combination of backing, adhesive, and liner works best!



Backings

tesa Double-Sided Tapes are available in five different backing materials. Each of these, in combination with the most appropriate adhesive, fits the specified application perfectly.

Thin backings leave space for more adhesive at the same total thickness and generate a higher flexibility of the product, as well as better peel adhesion.

Adhesives

Acrylic Adhesives

- Polymers are industrially synthesized
- Precise adjustment of polymers allows control of adhesive properties
- Polymerization, compounding, and coating by tesa
- Suitable for permanent and outdoor applications

Natural Rubber Adhesives

- Natural polymers
- Compounding and coating by tesa
- Suitable for bonding non-polar surfaces and general-purpose applications

Synthetic Rubber Adhesives

- Synthetic polymers, industrially manufactured by well-known producers
- Synthetic rubber adhesives are thermoplastic
- Suitable for bonding non-polar surfaces and general-purpose applications

Advantages +

- Adheres well to polar substrates (Polyester, polycarbonate, glass, metals)
- Temperature resistant
- Age resistant
- Resistant to environmental elements
- Usually higher shear resistance at elevated temperatures

Limitations -

- Ultimate adhesion strength is reached after dwell time, so the tapes are repositionable
- Low, immediate peel adhesion
- Lower adhesion level on non-polar substrates

Advantages +

- High initial tack or "grab"
- High initial bond to substrate
- Excellent adhesion to non-polar surfaces, such as PP, PE, or EPDM
- Lower raw material costs than acrylics

Limitations -

- Lower resistance to elevated temperatures
- Lower aging resistance
- Lower environmental resistance
- Lower chemical resistance
- Lower humidity resistance

PP - Polypropylene / PE - Polyethylene / EPDM - Ethylene Propylene Diene Monomer

It's Very Easy to Identify the Right tesa Product!

tesa Film Tapes (PET, PVC, PP)

Polyester (PET), Polyvinyl Chloride (PVC), Polypropylene (PP)

tesa Foam Tapes (PE, PU) Polyethylene (PE), Polyurethane (PU)

Complementary Core

Complementary



Core

tesa® 4965 Converter's Friend Premium PET

- Modified Acrylic Available Liners:
- MOPP Film
- Glassine Paper
- PE-Coated Paper



tesa® 4970 Premium PVC • Modified Acrylic

Available Liner: • Glassine Paper



tesa® 64621 **Economy PP**

- Synthetic Rubber Available Liner:
- Glassine Paper

tesa® 4968

Premium PVC

- Modified Acrylic Available Liners:
- MOPP Film
- Glassine Paper
- PE-Coated Paper

tesa® 4980

Smooth Lamination PET

- Modified Acrylic Available Liner:
- Glassine Paper

tesa® 4982 Strong Lamination PET

- Modified Acrylic Available Liners:
- MOPP Film
- Glassine Paper

tesa® 51970

High-Performance PP

- Modified Acrylic Available Liners:
- MOPP Film
- Glassine Paper

tesa® 51977 Performance PP

- Modified Acrylic Available Liner:
- Glassine Paper

tesa® 64620 Standard Grade PP

- Modified Acrylic Available Liner:
- Glassine Paper



tesa® 62932 Constructive Bonding

- White/Black PE Foam
- Closed Cell
- Modified Acrylic
- 20 mils

Available Liners:

- Red MOPP Film
- Glassine Paper
- PE-Coated Paper (Black only)
- Blue PE Film (Black only)



tesa® 62934 Constructive Bonding

- Black PE Foam
- Closed Cell
- Modified Acrylic
- 32 mils

Available Liners:

- Red MOPP Film
- Glassine Paper
- PE-Coated Paper



tesa® 62936 Constructive Bonding

- Black PE Foam
- Closed Cell
- Modified Acrylic
- 64 mils

Available Liners:

- Red MOPP Film
- Glassine Paper

tesa® 4952

General Bonding

- White PE Foam
- Closed Cell
- Modified Acrylic
- 46 mils

Available Liner:

Glassine Paper

tesa® 4977

Closed Cell

Available Liner:

Glassine Paper

• 32 mils

Constructive Bonding

White PUR Foam

Modified Acrylic

tesa® 4976

Constructive Bonding

- Black PUR Foam
- Closed Cell
- Modified Acrylic
- 22 mils

Available Liner:

• Glassine Paper

Constructive Bonding

- Grey PUR Foam
- Closed Cell
- Modified Acrylic
- 32 mils

Available Liner:

tesa® 62872

Constructive Bonding

- Black PE Foam
- Closed Cell
- Pure Acrylic
- 20 mils

Available Liner:

· Glassine Paper

tesa® 62875

- Black PE Foam
- Closed Cell
- Pure Acrylic
- 36 mils

Available Liner:

Glassine Paper

tesa® 64958

General Bonding

- White PE Foam Closed Cell
- Synthetic Rubber
- 40 mils

Available Liner:

• Glassine Paper

tesa® 51930

• Green Film

Constructive Bonding

tesa tesa tesa Cloth Tapes Non-woven Tapes Transfer Tapes Core Complementary Core Complementary Core tesa® 4961 tesa® 4987 Performance Tissue Premium Reinforced • Synthetic Rubber Modified Acrylic Normal Wind 3" Core Available Liner: • Glassine Paper • Reverse Wound 1" Core Available Liner: • Glassine Paper tesa® 4959 tesa® 4985 tesa® 4964 High-Performance **Premium Tissue Premium Unsupported** Modified Acrylic • Modified Acrylic Natural Rubber tesa® 4962 • Normal Wind 3" Core Available Liner: Available Liners: • Glassine Paper • MOPP Film High Grade Tissue • Reverse Wound 1" Core tesa® 4900 • Glassine Paper • Modified Acrylic Available Liner: • PE-Coated Paper Available Liners: • Glassine Paper Unsupported • MOPP Film • Pure Acrylic • Glassine Paper • Normal Wind 3" Core • PE-Coated Paper • Reverse Wound 1" Core Available Liner: • Glassine Paper tesa® 51575 **NOPI™ 7002 Economy Tissue** • Water-based Acrylic **Economy Grade** Available Liner: Modified Acrylic tesa® 4934 • Reverse Wound 1" Core • Glassine Paper tesa® 51571 **Economy Grade** Available Liner: • Synthetic Rubber High-Performance Tissue • Glassine Paper Available Liner: • Synthetic Rubber Available Liner: • Glassine Paper • Glassine Paper



Liners

Features and Technical Details of Available Liners

Product Features	Liner Thickness	Weight	Color
Glassine Paper Liner + Cost efficient + Low compression due to hard paper core - Limited humidity resistance	2.8 mils	49 lbs/ream	Mustard Yellow
Polypropylene Film Liner + Very narrow thickness tolerance + Translucent for visual inspection + Low electrical charge - High elongation	3.2 mils	44 lbs/ream	Tango Red, Translucent
Polyethylene-Coated Paper Liner + Excellent humidity resistance + PE layer against paper fiber emission - Higher cost	4.8 mils	74 lbs/ream	White, Printed Logo
Polyethylene Film Liner + Very narrow thickness tolerance + Low electrical charge - High elongation	3.2 mils	56 lbs/ream	Blue

Liner Functionality

	Glassine Paper Liner	PP Film Liner	PE-Coated Paper Liner	PE Film Liner (for foam only)
Kiss Cutting	-	+	+	+
Die Cutting	+	+	0	+
Tensile Strength	0	+	+	0
Knife Dulling	+	0	+	0
Hand Tearable	+	-	+	0
Transparency	-	+	-	-
Moisture Resistance	-	++	+	++
Appearance	-	+	+	+
	-	- = Below Average	o = Average +	= Above Average

tesa - Professional Tape Technology

For over a century, tesa has pioneered the development of pressure-sensitive adhesive tape technologies. This rich tradition of innovation dates back to 1882 when the company's founder patented a method for manufacturing medical adhesive dressings. Today, the worldwide tesa enterprise services customers in over 100 countries around the globe and holds numerous product patents. At tesa, our charter is to provide our customers with service levels and applications expertise that go well beyond the roll of tape.



- tesa affiliate
- tesa production plant

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