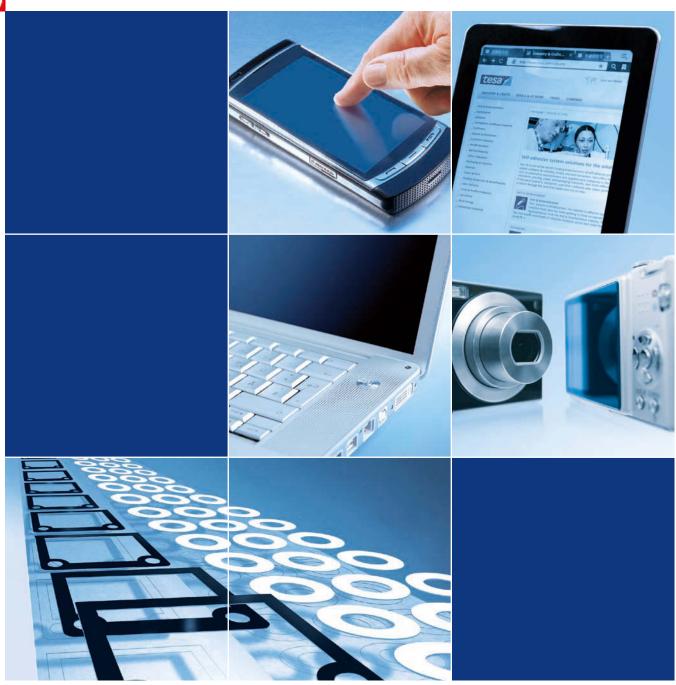


# **Solutions for the Electronics Industry**



tesa® Electronics Assortment 2013 INDUSTRY FOLDER



# **Solutions for the Electronics Industry**



### Brand and product protection for tesa® tapes – tesa Holospot® Security

- tesa SE prides itself in delivering high quality and performance products to its valued customers worldwide.
- The popularity and demand for the tesa products has also subjected tesa to the threat of counterfeits. These counterfeit products do not offer the quality and performance of a genuine tesa product and may have an impact on the quality of the end device, leading to premature product failure, and perhaps even endanger product safety compliance.
- To safeguard the tesa brand and its products and to assist our customers in verifying their genuine tesa purchases, tesa is successively introducing a Product Authentication service that enables confirmation of the authenticity of tesa log rolls.



For additional information, please contact your local sales representatives.

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doop	
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	3

Pog

5

10 20

190 200

220

250

# Standard

### **General mounting**

### Conformable & Easy handling Differential & Silicone acrylic

### Lens-mounting

Special



PET family

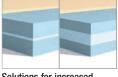
Solutions for standard mounting and lamination applications

Tackified acrylic adhesive PET backing in transparent

and black



- mounting and lamination applications
- Tackified acrylic adhesive PET backing in transparent and black

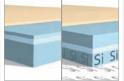


Solutions for increased adhesion level at constant thickness / Solutions for improved handling of die-cuts

- Tackified acrylic adhesive
- ≤ 50µm: Ultra thin and conformable PET backing
- ≥ 80µm: Thick and stiff PET backing

68556 68557 / 68558 / 7308 (s/s)

68559



Solutions for optimized bonding performance on different substrates

- Different coating weight or different adhesive on either side of the tape
- PET backing
- 61532: Silicone adhesive



Solutions for high push-out performance and high peel adhesion

Superior push-out resistance

61360 / 61365\*

61370 / 61375\*

61380 / 61385\*

61390 / 61395\* / 61335\*

61345\*

61325\*

- High peel adhesion
- PET backing in transparent and black

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Ī		
2010		
5		
2		

# Thickness cluster [um]

30	49831) / 51983*1)	68540 / 68740*	68550	
40				
50	49721) / 51972*1)	68542 / 68742*	68552	68582 / 61532
60	68511			
70				
80	4980 <sup>1)</sup> / 51980* <sup>1)</sup>	68545 / 68745*	68575	68585 / 68785*
90				
100	49821) / 51982*1)	68547 / 68747*		
110				
120	49281) / 51928*1)	68548 / 68748*		
130				
140	4942 / 51942*			
150			61320 / 61330*	
160	49671) / 51967*1)			
170				
180				





49651) / 51965\*1)

Foam lamination Mounting of components, e.g. speaker or receiver modules



General mounting and lamination



4975 / 51975\*

53822\*

4926 / 51926\*

Conformable: Demanding mounting applications where an increased adhesion performance is nescessary Easy handling: Narrow lens

mounting die-cuts



- Speaker mesh mounting Applications with requirements on removability
- 61532: Mounting on silicone or silicon-containing surfaces



Demanding lens mounting applications in mobile phones

			Foam tapes	HAF tapes	
TSP mounting	Anti-repulsion	Removable	PE foam	Reactive	Thermoplastic
Solutions for improved shock and push-out performance  High push-out resistance High shock resistance PET backing in transparent and black	Solutions for improved repulsion resistance  Repulsion resistant adhesive PET backing in transparent and black	Solutions for removable mounting  Pure acrylic adhesive on removable side of the tape For d/s tapes tackified acrylic on permanent side PET backing in transparent and black	Solutions for improved shock resistance and gap filling  Tackified acrylic adhesive Black PE foam backing 62645, 62646, 62945, 62946 and 62948 with PET reinforcement	Solutions with extremely high bonding strength for long-term security  Reactive adhesive 8451 and 8454 offer special shock resistance, even at low temperatures 58493 with PET backing Available in brown and black	Solutions for temperature sensitive substrates  Thermoplastic adhesive 8466, 8468 and 8469 with non-woven backing
	68530	68560 / 68760*		84713) / 58471*	
	68532 / 68732*	68562 / 68762*		58470*	8462
	000027 00702	50076 (s/s)		8472 <sup>3)</sup>	0402
	68535 / 68735*	68565 / 68765*		58493*	
61760 / 61765*	68537 / 68737*	68567 / 68767* / 4720		84743 / 58474* / 8454	8444
61770 / 61775*				8475 <sup>3)</sup> / 58475*	
61780 / 61785*			62622*		8466
61790 / 61795*			62924* / 62624* / 62930*	84783 / 58478* / 8451	8467 / 8468
61725*			62625* / 62945* / 62645*		8469
01120			62946* / 62646* / 62626*		0.100
			62948*		
			62932*3)		
Demanding lens mounting and touch screen panel mounting	Bonding on curved surfaces Mounting bent substrates Antenna mounting	Removable mounting Sealing support for foam gaskets Temporary mounting prior to mechanical fixation	Touch panel / lens mounting in mobile phones Speaker module mounting Front panel mounting in notebooks Mounting on uneven surfaces	Constructive bonding inside electronic devices Bonding of decorative metal components	Bonding of decorative or reinforcing metal components Bonding on large areas Bonding of metal logos to housing



**Barrier tapes** 

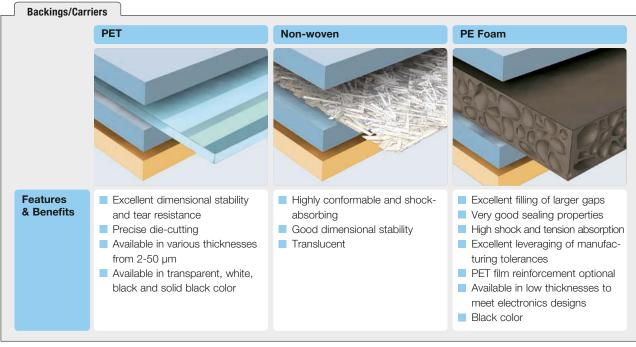
**Acoustic membranes** 

### Isotropically conductive Anisotropically **High performance Encapsulation** Stretchable adhesive conductive (Z - direction) (XYZ - direction) speaker membranes (s/s and d/s) Product group description Solutions for anisotropic Solutions for grounding Solutions for temporary Multilayer membranes Solutions for encapsulation conductive mounting mounting of sensitive substrates Excellent electrical con-Good damping properties Heat Activated Film with ductivity in XYZ direction Very high bonding strength High durability Water vapor barrier electrically conductive 60272, 60274: Black Superior push out and 64170: 3-layer, adhesive particles color shock resistance 10µm PAR Non-reactive with sensitive 60251: Removable tape 64198: 3-layer, Excellent electrical Easy removability by and active material conductivity in Z direction 60246, 60248, 60249: stretching the adhesive 8µm PEEK 61560 s/s transparent Foam gasket tapes and 61570 s/s nontransparent 5 10 61562 20 60260 30 40 64170 / 64198 602621) / 60251 / 60252 / 60272\* 61560 (s/s) 50 8414 60 60253 70 61570 (s/s) 80 90 60254 / 60274\* 70410 100 Thickness cluster [µm] 110 120 70413 130 140 70415 150 160 170 180 190 200 220 250 70425 60246 300 400 70440 60248 500 60249 700 Application examples Encapsulation of organic Electrical connection -FPC grounding Temporary fixation of Designed for high audio PCB grounding e.g. connection between components performance in electrobased layers Permanent mounting of dynamic speakers Compatibility with sensitive antenna and chip in dual interface cards components with the materials - direct adheoption to remove the parts sion possible for repairing or recycling

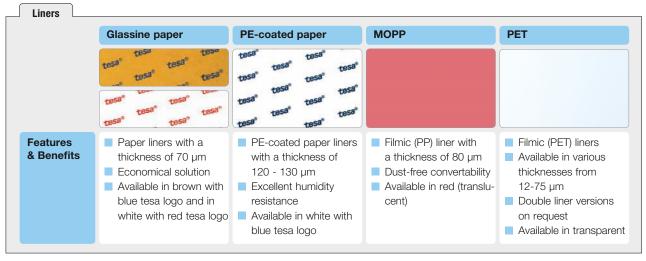
Bond and detach

**Electrically conductive tapes** 





### **Adhesives Tackified Acrylic Pure Acrylic Heat Activated Special Features** ■ Well-balanced adhesive High temperature Heat activated adhesive Available versions: & Benefits systems for general resistance systems for superior High shock and pushmounting and lamina-Excellent shear resisbonding strength out resistant adhesives tion applications Available versions: Repulsion resistant Excellent aging resis-High UV resistance Standard reactive adhesive tance Very low VOC and adhesive: High humidity Water vapor barrier corrosive ion content and aging resistance adhesive Available versions: Thermoplastic adhesive Silicone surface Standard and optically (non-curing): Low actiadhesive clear vation temperature Removable adhesive Special reactive Electrically conductive adhesive: High shock adhesive resistance ACF adhesive: Anisotropic conductive



### **Detailed Information**

For additional information, please refer to the following brochures:

### **Application Folder:**

- tesa® Solutions for Mobile Phones
- tesa® Solutions for Components
- tesa® Solutions for Digital Cameras
- tesa® Solutions for Flat Panel Displays
- tesa® Solutions for Touch Panels
- tesa® Solutions for Notebooks / Tablet PC
- tesa® Solutions for TVs





tesa® HAF Solutions for handheld devices in consumer electronics

tesa® Double-sided Adhesive Tapes: Extended Solutions

■ tesa® 50 µm double-sided tape assortment

tesa® 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® product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical staff will be glad to support you.

Product Folder:

### HEADQUARTERS

### tesa SE

Quickbornstraße 24 20253 Hamburg Germany

Phone: +49 40 4909 3400 www.tesa.com

### WESTERN EUROPE

### tesa Western Europe B.V.

UN Studio, 6th floor, Parnassusweg 813/A 1082 LZ Amsterdam The Netherlands Phone: +31 20 3033 500 www.tesa.nl

### EASTERN EUROPE

### tesa tape Eastern Europe

Szabadság út 117. 2040 Budaörs Hungary Phone: +36 23 814 154 www.tesa.hu

### NORTH AMERICA

### tesa tape inc.

5825 Carnegie Boulevard N.C. 28209 Charlotte U.S.A

Phone: +1 800 426 2181 www.tesatape.com

### SOUTH AMERICA

### tesa Brasil Ltda.

Ave. João Gualberto, no.1259 -18th Floor Alto da Gloria CEP 80030-001 Curitiba-PR, Brazil

Phone: +55 41 3021 8100 www.tesatape.com.br

### SOUTHEAST ASIA

### tesa tape Asia Pacific Pte.Ltd.

164 Gul Circle Singapore 629621 Singapore Phone: +65 6861 2026 www.tesa-asia.com

### CHINA

### tesa tape (Shanghai) Co Ltd.

Bldg 1, Lane 2500, Xiupu Rd, HQ Gulf, Pudong Shanghai 201315 PR China

Phone: +86 21 6818 3110 www.tesa-asia.com

### TAIWAN

### tesa tape (Hong Kong) Ltd. -Taiwan Branch

9F-1, 3, Sec 1 Ming Sheng Road Panchiao 220, Taipei 22069 Taiwan

Phone: +886 2 2957 9662 www.tesa-asia.com

### KOREA

# tesa tape Korea Ltd.

City Air Tower 159-9, Room 1805 Samseong-dong, Gangnam-gu 135-973 Seoul

Korea

Phone: +82 2 569 8451 www.tesa-asia.com

## JAPAN

### tesa tape K.K.

8F, Shirokanetakanawa Station Bldg. 1-27-6 Shirokane, Minato-ku 108-0072 Tokyo Japan

Phone: +81 3 6833 2305 www.tesa-asia.com

### INDIA

### tesa Tapes (India) Pvt. Ltd.

B-703, 7th Floor, Hermes Atrium, Plot No. 57, Sector 11, CBD Belapur, Navi Mumbai 400614, Maharashtra India

Phone: +91 22 2756 4139 www.tesa-asia.com



