

Solutions for the Electronics Industry



tesa® Electronics Assortment 2012

INDUSTRY FOLDER

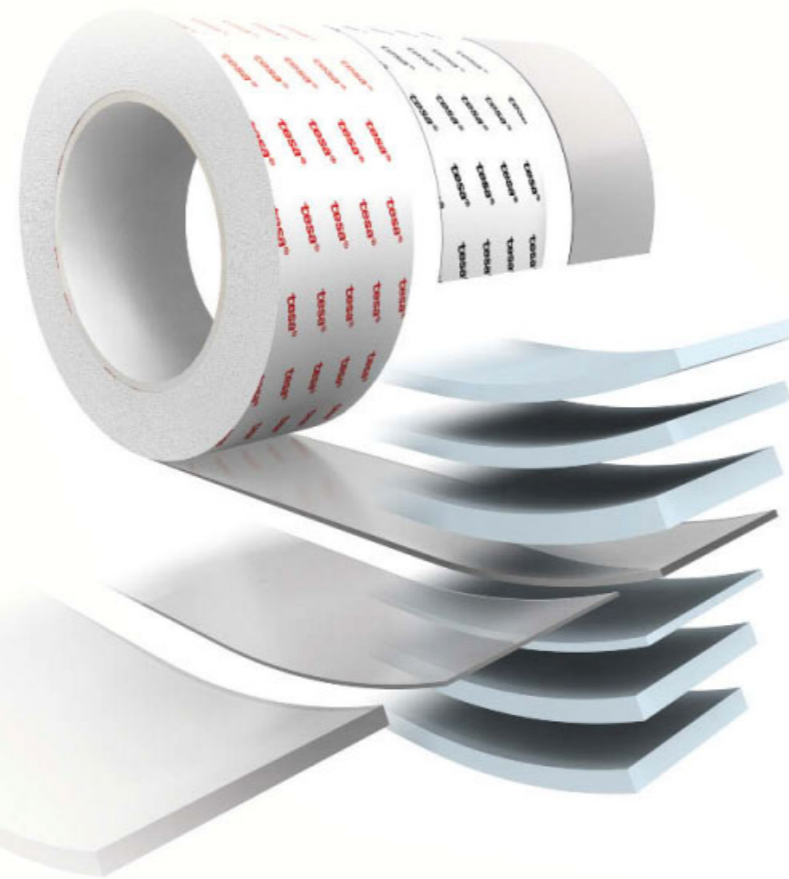


Solutions for the Electronics Industry

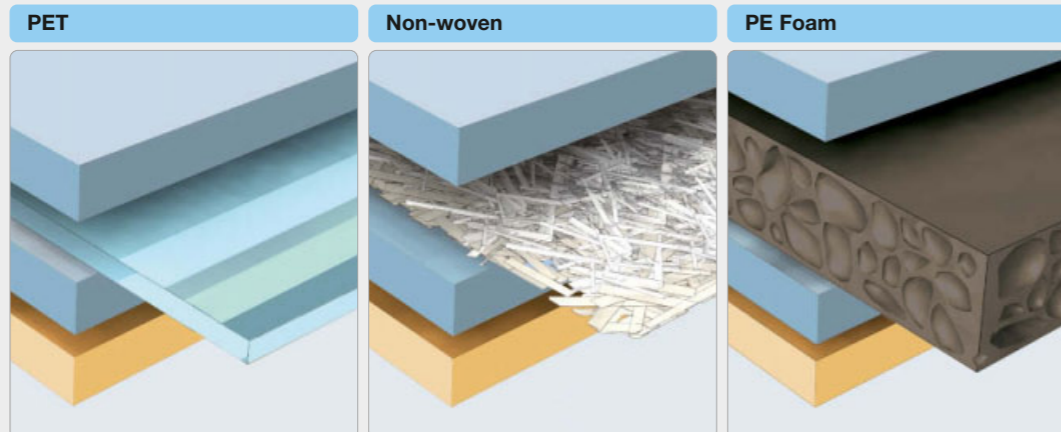
tesa is one of the leading global manufacturers of adhesive solutions for the electronics industry. Building on technologies and our dedicated people, we aim to help you improve processes and end products, where ever you are:

- Numerous sales offices, R&D and production facilities strategically positioned around the world.
- Extensive experience in the industry and profound knowledge of applications and the value chain.
- Assortment of tapes using different adhesives, liners and backings.
- Certified to international quality standards.
- Continuous investments in R&D and new production technology to meet your needs – both today and tomorrow.

This industry folder provides an overview of the tesa® electronics assortment. For more specific information on certain product types and applications, please contact us and request your personal copy of a tesa® product or application folder.



Backings/Carriers



Features & Benefits

- | PET | Non-woven | PE Foam |
|---|---|---|
| <ul style="list-style-type: none"> ■ Excellent dimensional stability and tear resistance ■ Precise die-cutting ■ Available in various thicknesses from 2-50 µm ■ Available in transparent, white, black and solid black color | <ul style="list-style-type: none"> ■ Highly conformable and shock-absorbing ■ Good dimensional stability ■ Translucent | <ul style="list-style-type: none"> ■ Excellent filling of larger gaps ■ Very good sealing properties ■ High shock and tension absorption ■ Excellent leveraging of manufacturing tolerances ■ PET film reinforcement optional ■ Available in low thicknesses to meet electronics designs ■ Black color |

Adhesives


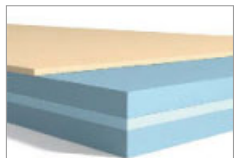

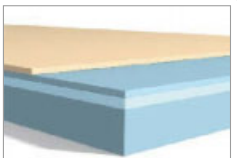

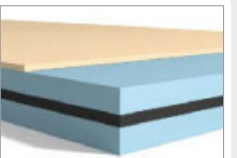
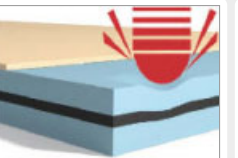

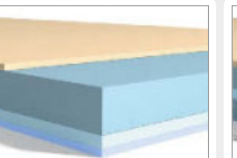
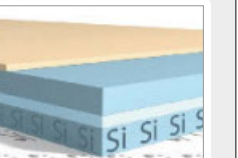




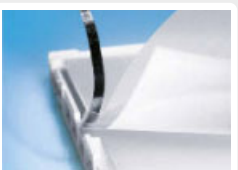




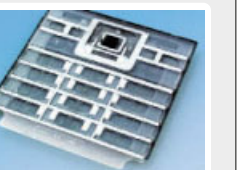

	Tackified Acrylic	Pure Acrylic	Heat Activated	Special
Features & Benefits	<ul style="list-style-type: none"> ■ Well-balanced adhesive systems for general mounting and lamination applications ■ Excellent aging resistance 	<ul style="list-style-type: none"> ■ High temperature resistance ■ Excellent shear resistance ■ High UV resistance ■ Very low VOC and corrosive ion content ■ Available versions: Standard and optically clear 	<p>Heat activated adhesive systems for superior bonding strength</p> <p>Available versions:</p> <ul style="list-style-type: none"> ■ Standard reactive adhesive: High humidity and aging resistance ■ Thermoplastic adhesive (non-curing): Low activation temperature ■ Special reactive adhesive: High shock resistance ■ ACF adhesive: Anisotropic conductive 	<p>Available versions:</p> <ul style="list-style-type: none"> ■ High shock and push-out resistant adhesives ■ Repulsion resistant adhesive ■ Water vapor barrier adhesive ■ Silicone surface adhesive ■ Removable adhesive

Liners

	Glassine paper	PE-coated paper	MOPP	PET
Features & Benefits	<ul style="list-style-type: none"> ■ Paper liners with a thickness of 70 µm ■ Economical solution ■ Available in brown with blue tesa logo and in white with red tesa logo 	<ul style="list-style-type: none"> ■ PE-coated paper liners with a thickness of 120 - 130 µm ■ Excellent humidity resistance ■ Available in white and white with tesa logo 	<ul style="list-style-type: none"> ■ Filmic (PP) liner with a thickness of 80 µm ■ Dust-free convertability ■ Available in red (translucent) 	<ul style="list-style-type: none"> ■ Filmic (PET) liners ■ Available in various thicknesses from 12-75 µm ■ Double liner versions on request ■ Available in transparent

PET tapes

Foam tapes

Product group description	Standard				Special						PE foam
	PET family	General mounting	Conformable	Differential	Easy handling	Lens-mounting	TSP mounting	Anti-repulsion	Removable	Silicone acrylic	
	 Solutions for standard mounting and lamination applications ■ Tackified acrylic adhesive ■ PET backing in transparent and black	 Solutions for general mounting and lamination applications ■ Tackified acrylic adhesive ■ PET backing in transparent and black	 Solutions for increased adhesion level at constant thickness ■ Tackified acrylic adhesive ■ Ultra thin and conformable PET backing	 Solutions for optimized bonding performance on different substrates ■ Tackified acrylic adhesive with different coating weight on either side of the tape ■ PET backing	 Solutions for improved handling of die-cuts ■ Tackified acrylic adhesive ■ Thick and stiff PET backing in transparent and black	 Solutions for high push-out performance and high peel adhesion ■ Superior push-out resistance ■ High peel adhesion ■ PET backing in transparent and black	 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 reliable mounting on silicone surfaces ■ Silicone surface adhesive on one side of the tape ■ Tackified acrylic adhesive on the other side ■ PET backing	
Thickness cluster [µm]	5		68556								
	10		68557 / 68558								
	20		68559								
	30	4983 ¹⁾ / 51983 ¹⁾	68540 / 68740*	68550				68530	68560 / 68760*		
	40										
	50	4972 ¹⁾ / 51972 ¹⁾	68542 / 68742*	68552	68582			68532 / 68732*	68562 / 68762*	61532	
	60	68511							50576 (s/s)		
	70										
	80	4980 ¹⁾ / 51980 ¹⁾	68545 / 68745*		68585 / 68785*	68575		68535 / 68735*	68565 / 68765*		
	90										
	100	4982 ¹⁾ / 51982 ¹⁾	68547 / 68747*				61360 / 61365*	61760 / 61765*	68537 / 68737*	68567 / 68767* / 4720	
	110										
	120	4928 ¹⁾ / 51928 ¹⁾	68548 / 68748*				61370 / 61375*	61770 / 61775*			
	130										
	140	4942 / 51942*									
	150					61320 / 61330*	61380 / 61385*	61780 / 61785*			
	160	4967 ¹⁾ / 51967 ¹⁾									
	170										
	180										
	190										
200	4965 ¹⁾ / 51965 ¹⁾				4975 / 51975*	61390 / 61395*	61790 / 61795*			62924* / 62624*	
220											
250					4926 / 51926*					62625* / 62945* / 62645*	
300										62946* / 62646*	
400										62948*	
500										62932 ³⁾	
700											
Application examples	 ■ Foam lamination ■ Mounting of components, e.g. speaker or receiver modules	 ■ General mounting and lamination	 ■ Demanding mounting applications where an increased adhesion performance is necessary ■ Demanding mounting applications with curved or uneven substrates	 ■ Speaker mesh mounting ■ Applications with removability requirements	 ■ Narrow lens mounting die-cuts ■ Manual application of long and narrow foam & tape laminates (no elongation!)	 ■ Demanding lens mounting applications in mobile phones	 ■ 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	 ■ Mounting on silicone or silicon-containing surfaces ■ Mounting silicone key pads	 ■ Touch panel / lens mounting in mobile phones ■ Speaker module mounting ■ Front panel mounting in notebooks ■ Mounting on uneven surfaces

* Black version
Available in Q2 2012



¹⁾ UL file MH18055 ³⁾ UL file E309290
²⁾ UL file MH25809 ⁴⁾ UL file E203787

Detailed Information

For additional information, please refer to the following brochures:

Application Folder:

- tesa® Solutions for Mobile Phones
- tesa® Solutions for Digital Cameras
- tesa® Solutions for LCD Modules
- tesa® Solutions for Notebooks / Tablet PC
- tesa® Solutions for TVs



Product Folder:

- tesa® HAF Solutions for handheld devices in consumer electronics
- tesa® 50µm double-sided tape assortment
- tesa® Double-sided Adhesive Tapes: Extended Solutions



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.

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