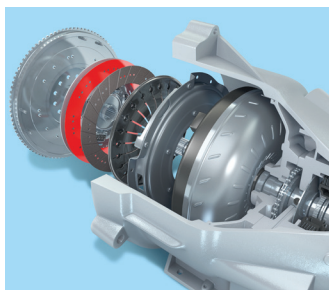


Structural bonding films

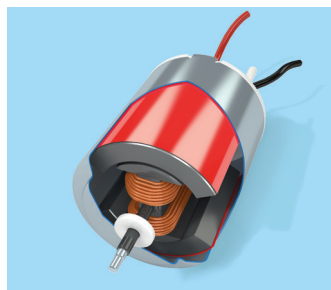
tesa® Heat-Activated Films (HAF)

Each of our HAF products has been developed for the different requirements and challenges of the market and offers the following advantages on various surfaces:

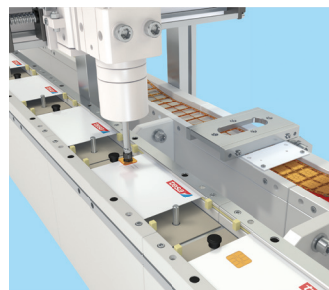
- Extremely high bonding strength of up to 30 N/mm²
- High resilience
- Good resistance against oil and solvents (reactive system)
- Ageing/UV/temperature resistance after curing
- Even and precise bonding
- Easy handling
- Quick and clean solution
- Good die cutability



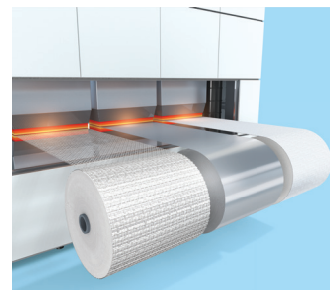
Bonding of carbon friction linings on metal for e.g. clutch lining



Bonding of magnets in electric motors, e.g. inside a motor for windscreen wipers

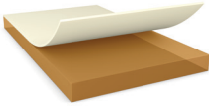



Bonding of chip modules in plastic cards for e.g. banks etc.



Splicing of e.g. fibreglass mats, metal foils or textiles

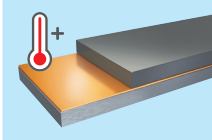
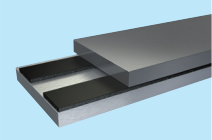
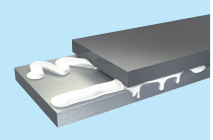
tesa® HAF overview

	Adhesive	Color	Thickness	Application temperature	Usability	Characteristics
 Reactive HAF	Nitrile rubber and phenolic resin	Amber	30–270 µm	120–220°C	12 months*	Reactive adhesive masse Very high adhesion strength Excellent resistance against chemicals and ageing Also available as a single sided version with cotton in 315 µm
 Thermoplastic HAF	Copolyester or copolyamide	Translucent or transparent	30-100 µm	80-150°C	12 months*	Thermoplastic adhesive mass Very high adhesion strength Activation under low pressure

* Under recommended storage conditions

tesa® HAF – In comparison

tesa® HAF offers bonding strength which is comparable with high performance liquid adhesive and about five times higher than the bonding strength of conventional double sided adhesive tapes.

	tesa® reactive HAF	Double-sided adhesive tape	Heavy duty liquid adhesive
			
Advantages			
Bonding strength:			
• Shear resistance	••••	•••	•••••
• High bonding strength			
Performance and reliability			
Reliability under extreme environmental conditions:			
• Resistance against chemicals/oils	••••	••	•••••
• Resistance against high temperatures			
Sealing:			
• Prevents contamination from dust and humidity	••••	••••	•••••
Application			
No oozing:			
• Precise application even on narrow bonding areas	••••	••••	•
• No residues			
Fast and simple application:			
• Higher productivity	•••	••••	•
• Little or no curing time			
Die cutability	••••	••••	-
Clean and healthy work environment	•••	••••	•

•••• very good ••• good •• medium • weak

tesa® products prove their impressive quality day in, day out in demanding conditions and are regularly subjected to strict controls. All technical information and data above mentioned are provided to the best of our knowledge on the basis of our practical experience. They shall be considered as average values and are not appropriate for a specification. Therefore 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. 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 support staff will be glad to support you.