

A worker in a white protective suit and mask is using a heat gun on a metal surface in an industrial setting. The worker is positioned on the left side of the frame, and the heat gun is directed towards a metal component hanging from a crane. The background shows a large industrial chamber with a glass door and various mechanical parts.

**RELIABLE, HEAT RESISTANT,
AND MULTIFUNCTIONAL**

Our Assortment of High-Temperature Tapes

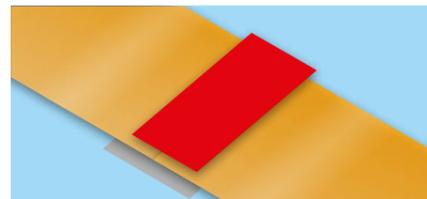
SOLUTIONS FOR ELEVATED TEMPERATURES

High-Temperature Applications

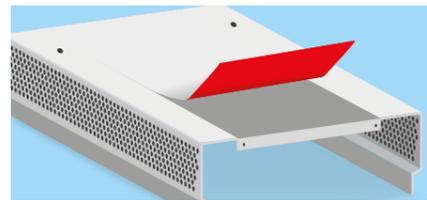
Our high-temperature tapes featuring a heat-resistant backing with a silicone adhesive provide the perfect solution for demanding high-temperature applications such as masking during powder-coating, galvanizing, and wave-soldering processes as well as autoclave bonding operations during composite production or thermal insulation and cable-wrapping applications. Selection of an appropriate product depends on the to be bonded substrate, the employed materials in the process, as well as the temperature and duration of the application. This brochure will help you to select the product best suited to your individual needs.

By using our products, you will benefit from:

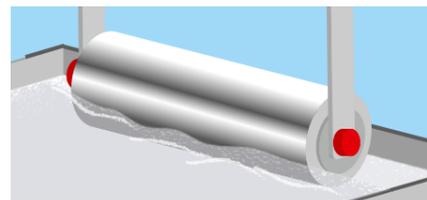
- A wide range to serve even the most demanding applications
- Stable and reliable quality that has been proven multiple times
- Technical customer service by experienced and highly skilled engineers



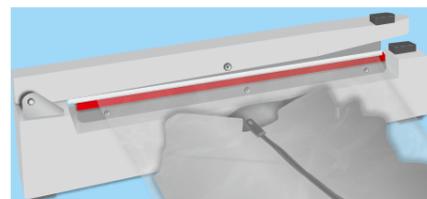
The splicing of siliconized paper and films as well as low surface energy materials requires tapes with a special silicone adhesive adhering perfectly to these substrates. Furthermore, the backing needs to withstand the high-temperature drying processes. Our splicing tapes have been specifically developed to provide the optimal solution for this application.



During powder coating processes free-flowing powder is typically transferred to the surface via electrostatic forces and afterwards cured at high temperatures (180°C–220°C). Masking tapes are used to protect areas that should not be coated.



Galvanizing is an electrochemical process to cover material with a metal coating. Masking tapes need to withstand various chemicals found in the electrolytes and are used to protect areas that should not be coated.



In various industries, plastic films or bags are closed with heat-sealing equipment. To protect the devices from the heated plastic bags, tapes with anti-stick properties are needed. Our tesa® 4818 with PTFE backing offers the perfect solution for this application.

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.

Product description and application	Tape	Backing	Total thickness [µm]	Adhesion to steel [N/cm]	Tensile strength [N/cm]	Temperature resistance**	Available with liner
		Adhesive					
tesa® 4200 • Double-sided tape for splicing siliconized papers and films, low surface energy materials, and more • Thin carrier film for excellent conformability • Easy and reliable splice detection due to red color		PET	90*	5	28	176°C	Yes
		Silicone					
tesa® 61127 • Single-sided tape for splicing siliconized papers and films, low surface energy materials, and more • Anti-adhesive backing with outstanding release characteristics • Easy and reliable splice detection due to black color		PET	65	3.5	40	180°C	No
		Silicone					
tesa® 4331 • Suitable for powder-coating processes and belting of semiconductors • Special backing laminate for high tear resistance and excellent paint anchorage • Residue-free removability for demanding masking applications like powder coating		PET/non-woven	110	4	53	200°C	No
		Silicone					
tesa® 50650 • Especially suited for masking off areas that are to be protected during powder-coating processes • Good conformability, thin backing for sharp paint edges • Residue-free removability for demanding masking applications like powder coating		PET	55	3.2	50	220°C	No
		Silicone					
tesa® 50600 • Used for masking off areas that are to be protected during powder-coating processes • Highly tear resistant and thin backing for sharp paint edges • Residue-free removability for demanding masking applications like powder coating		PET	80*	4	75	220°C	Yes
		Silicone					
tesa® 61124 • Recommended for masking during powder-coating processes and bonding of low surface energy materials • Residue-free removability for masking applications like powder coating or spray painting • Excellent visibility even on dark surfaces due to high opacity		PET	60	3.5	45	220°C	No
		Silicone					
tesa® 61126 • Suitable for demanding applications such as autoclave bonding operations during composite production or galvanizing processes • High coating weight for secure bond even to rough or irregular surfaces • Excellent visibility even on dark surfaces due to high opacity		PET	125*	4.3	60	220°C	Yes
		Silicone					
tesa® 51407 • Suited for wave soldering, thermal-insulation, cable-wrapping, and masking applications • High chemical resistance and dielectric strength • Residue-free removability for masking applications like powder coating or galvanizing		Polyimide	62*	2.5	40	260°C	Yes
		Silicone					
tesa® 51408 • Premium grade polyimide tape for wave soldering, thermal-insulation, cable-wrapping and masking applications • High chemical resistance and dielectric strength • Residue-free removability for demanding masking applications like powder coating or galvanizing		Polyimide	65	2.8	46	260°C	No
		Silicone					
tesa® 4818 • Provides anti-stick properties to the equipment for heat sealing of films at packaging lines of various industries • Low friction and anti-stick properties due to PTFE backing, residue-free removability • High chemical, mechanical, and thermal resistance		PTFE coated glass cloth	180	4.5	310	260°C	No
		Silicone					

Increasing temperature resistance

* Without liner ** Depending on application and substrate



12/2019



Our management system is certified according to the standards ISO 9001, IATF 16949, and ISO 14001.