

A worker in a blue protective suit and helmet is shown in profile, holding a spray gun and applying a fine mist of white powder coating to a vertical metal surface. The background is a blurred industrial setting with bright overhead lights.

Powder Coating tapes that redefines precision

Discover our growing
powder-coating assortment

One-stop solution for precise powder coating applications

Powder coating is a highly demanding application that requires special masking tapes that can withstand high curing temperatures and are tear-resistant to be easily removed afterwards. The process is used to create a highly precise and uniform finish for protection or aesthetics on metal surfaces.

In the first step, the free-flowing, dry powder is applied to the material electrostatically, so it is drawn into the tiniest gaps. In the second step, the coating is typically cured by heat, for example at 392°F/200°C. This causes the powder, which often contains a thermoplastic or thermoset polymer, to melt into a durable finish that is tougher than conventional paint. This exceptional resilience makes powder coating the preferred choice for metal working industries from household appliances to transportation and aerospace industries by far. In addition, powder coating does not release any volatile organic compounds (VOCs) making it a preferred choice.

Our powder-coating assortment is designed for various applications with dwell time of up to 30 minutes. **tesa® 61126** of 4.9 mil total thickness, is a PET/silicone tape design for the most demanding applications. With a high contrast, red color, this high coat-weight product is designed to successfully perform in extreme conditions (428°F/220°C for 7hr or 392°F/200°C for 24hrs) and irregular surfaces. **tesa® 50600** of 3.1 mil total thickness, is highly tear resistant ideal for masking flat surfaces, while **tesa® 50650** of 2.1 mil total thickness offers great conformability making it suitable for non-flat surfaces. Both tapes are made of polyethylene (PET) with a 1mil silicone adhesive and is suitable for temperatures up to 428°F/220°C

The recent **tesa® 50620** our offering for basic powder coating tape of 2.7 mil total thickness and a temperature resistance of 392°F/200°C combines high tear resistance, tensile strength and residue-free removal. It is color-coded for easy identification and positioning, like the **tesa® 50600** and **tesa® 50650**.

Further complementing the **tesa® 50620**, our brand new offering **tesa® 50625** of 2 mil total thickness offers excellent conformability and is resistant to temperatures up to 392°F/200°C with residue free removal.



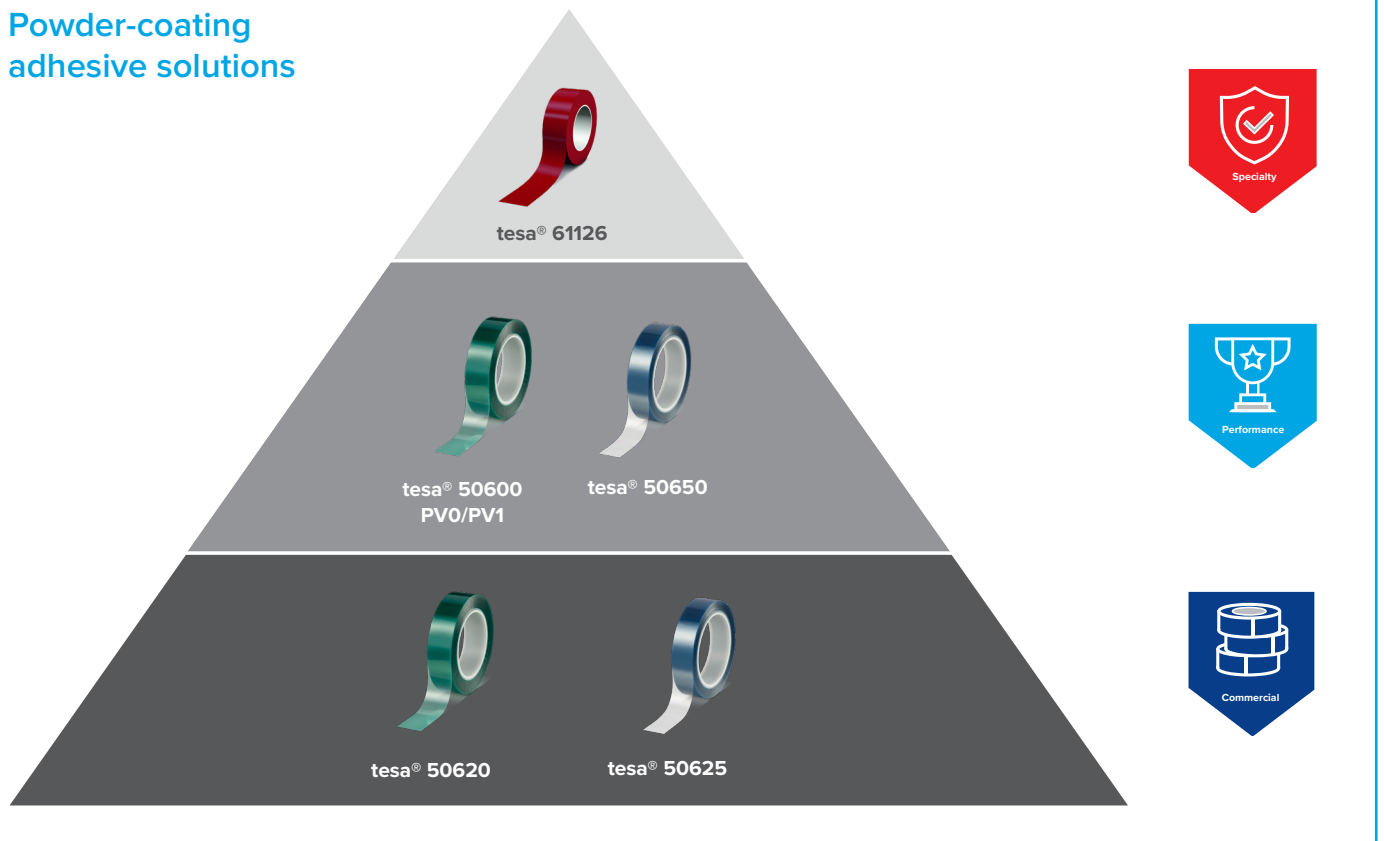
Benefits of our products

- All your powder coating adhesive needs from one hand
- Precise, stable and reliable quality that has been proven multiple times
- Technical customer service by experienced and highly skilled engineers
- Hassle free solution for every application
- Optimal lead times and minimum order quantities

Adhesive solutions for elevated temperatures

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. It is also used in autoclave bonding operations during composite production or thermal insulation and cable-wrapping applications. Selection of an appropriate product depends on the substrate to be coated, the employed materials in the process, as well as the temperature and duration of the application.

Powder-coating adhesive solutions



Auxiliaries

To enhance your powder-coating process, we've developed a range of specialized products designed to provide you with optimal support.

Recommendations:

- tesa® ACX^{plus} adhesive hooks
- tesa® 4414
- tesa® 60428
- tesa® 4848



Specialty offer



Performance offer



Commercial offer




Product description and application

tesa® 61126

- Extremely high temp resistance for powder coating, galvanizing, or chemical anodizing
- High coat weight for secure bonding even on irregular surfaces

Technical information

Backing	PET	Tensile strength	34.26lbs/in; 60N/cm
Adhesive	Silicone	Elongation at break	140%
Total thickness	4.92mil; 125µm	Color	
Adhesion to steel	2.46lbs/in; 4.3N/cm	Temperature resistance	428°F/220°C for 7h; 392°F/ 200°C for 24h




Product description and application

tesa® 50600

- Residue-free removability for masking and surface protection applications
- Easy application and easy one-piece removal

Technical information

Backing	PET	Tensile strength	42.83lbs/in; 75N/cm
Adhesive	Silicone	Elongation at break	110%
Total thickness	3.15mil; 80µm	Color	
Adhesion to steel	2.28lbs/in; 4N/cm	Temperature resistance	428°F/220°C

tesa® 50650

- Good conformability, thin backing for sharp color edge
- Easy application and easy one-piece removal-offers excellent paint anchorage

Backing	PET	Tensile strength	28.55lbs/in; 50N/cm
Adhesive	Silicone	Elongation at break	120%
Total thickness	2.17mil; 55µm	Color	
Adhesion to steel	1.88lbs/in; 3.3N/cm	Temperature resistance (30min)	428°F/220°C




Product description and application

tesa® 50620

- Ideally suited for masking off areas during general powder coating applications
- Residue-free removability for masking and surface protection applications
- Enables sharp color edges and offers good paint anchorage

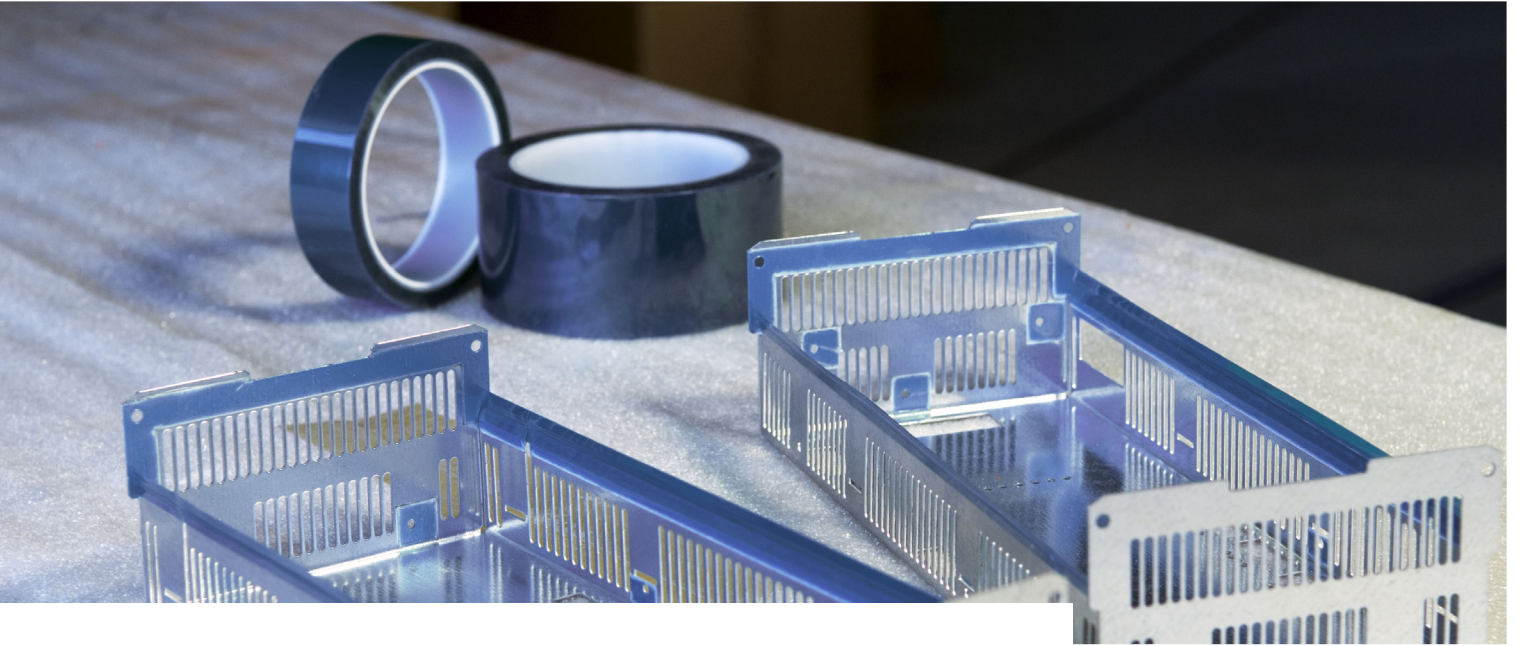
Technical information

Backing	PET	Tensile strength	42.83lbs/in; 75N/cm
Adhesive	Silicone	Elongation at break	110%
Total thickness	2.76mil; 70µm	Color	
Adhesion to steel	2.06lbs/in; 3.6N/cm	Temperature resistance (30min)	392°F/ 200°C

tesa® 50625

- Ideally suited for masking off irregular surfaces during general powder coating applications
- Good conformability due to thin backing
- Residue-free removability, sharp color edges and good paint anchorage

Backing	PET	Tensile strength	28.55lbs/in; 50N/cm
Adhesive	Silicone	Elongation at break	130%
Total thickness	1.96mil; 50µm	Color	
Adhesion to steel	1.83lbs/in; 3.2N/cm	Temperature resistance (30min)	392°F/ 200°C



06/2025

Certifications

Our company is focused on international quality, environmental, and occupational safety standards.

Please find more information regarding our certifications at:
www.tesa.com/certifications

United States and Canada

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