

tesa® 4600

Xtreme Conditions - a silicone self fusing tape

PRODUCT INFORMATION

Product Description

tesa® 4600 is a strong self-amalgamating tape in form of silicone that bonds without adhesive. It is applied with pressure by wrapping the tape around itself. The bondage of tesa® 4600 on its own backing creates a water tight, permanent sealing. No drying time is required. Its flexible material can be applied smoothly on any kind of surfaces, including wet or warm, dirty or oily. Xtreme Conditions can be used also for temporary applications leaving no residues after removal. The tape can be even applied under water.

Due to its silicone backing the tape has an excellent resistance to various chemical substances, oils, acids, solvents, salt water, UV radiation and extreme temperatures.

tesa® 4600 comes with a liner and is available in black and transparent.

Main Application

- Insulating and protecting wiring and connections
- Sealing applications in engine compartment
- Various bundling, securing, wrapping applications in the marine industry
- Wrap hydraulic fittings and other exposed metal connections to help prevent corrosion
- Masking applications in powder coating, liquid coating, e-coating, anodizing and plating
- Automotive applications for wire harness, general repairs
- Marine applications for boat rigging or coating ends of rope

Technical Data

■ Total thickness	500 µm	■ Temperature Resistance MIN	-60 °C
■ Elongation at break	600 %	■ Temperature Resistance MAX	260 °C
■ Tensile strength	33 N/cm	■ Dielectric breakdown voltage	8000 volt

Properties

■ Water resistance	++	■ Easy to remove	yes
■ Abrasion resistance	++	■ Certified according to	UL 510 Flame retardancy
■ Hand tearability	o		

Evaluation across relevant tesa® assortment: ++ very good, + good, o medium, - low

Additional Info

- Stretch the tape at least double its normal length. Apply it tight on the surface and overlap it tight around itself.
- For electrical insulation and general repairs, a 100% overlap on itself is sufficient.
- For high pressure leaks (e.g. sealing of water pipes or very difficult repairs) several layers should be applied. For the maximum pressure resistance of 12 bar please use ca. 4 layers with approx. 75% to 125% on both sides of the damaged pipe or hose.
- Due to the self amalgamating process, after applying the tape on itself, a permanent bond is created. Therefore, the tape cannot be reused.