



tesa[®] Professional 4600 Xtreme Conditions

Product Information

Self-welding silicon tape for an instant hermetic seal

Product Description

tesa[®] 4600 is a strong self-amalgamating tape made from silicone which bonds without adhesive. It is applied with tension 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 surface, including wet or warm, dirty or oily. Xtreme Conditions can be used also for temporary applications leaving no residues after removal. The tape can even be 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 for professional distribution and standard applications comes with a thickness of 500µm and with a roll length of 3m. It is available in transparent and black and always comes with a liner.

Application Fields

- 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 securing ends of rope

Technical Information (average values)

The values in this section should be considered representative or typical only and should not be used for specification purposes.

Product Construction

- | | | | |
|--------------------|-----------------------|-------------------|--------|
| • Backing material | stretchable specialty | • Total thickness | 500 µm |
|--------------------|-----------------------|-------------------|--------|

Properties/Performance Values

- | | | | |
|--------------------------------|-----------|-------------------------------|-----------|
| • Elongation at break | 750 % | • Easy to remove | yes |
| • Tensile strength | 33 N/cm | • Hand tearability | low |
| • Abrasion resistance | very good | • Temperature resistance min. | -60 °C |
| • Dielectric breakdown voltage | 8000 V | • Water resistance | very good |

Additional Information

- Stretch the tape to at least double its normal length. Apply it tight on the surface and overlap it tight around itself.
- To serve the best purpose for standard electrical applications wrap 3 time with 100% overlapping.

For latest information on this product please visit <http://l.tesa.com/?ip=04600>



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- For high pressure leaks (e.g. sealing of pipes) the tape should be stretched very tight and several layers should be used. Depending on the leak and pipe material the tape can withstand a pressure of 12 bar max. Please use max. 4 layers with approx. 100mm tape on both sides of the damaged pipe.
- Due to the self-fusing process, after applying the tape on itself, a permanent bond is created. Therefore, the tape can be used once.
- Please be aware: Xtreme Condition is not compatible with drinking water

Disclaimer

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 support staff will be glad to support you.



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