

## Silicone Tapes for Adhering Silicone Substrates

Bonding to silicone can be challenging. If you're trying to bond to silicone, your best option is Adhesives Research's (AR) ARclad® silicone tapes. AR's transfer and double-coated silicone tapes offer superior bonding performance.

### Benefits of ARclad® silicone PSAs for bonding to silicone materials:

- Bonds to silicone without primer or treatment (potentially eliminates the mess of liquids and some mechanical fasteners)
- Extremely high temperature resistance in short and long term; excellent low temperature bond strength after product is applied at room temperature
- Excellent resistance to harsh environments (chemically inert)
- Flexible and conformable for maximum wet out and surface contact which maximizes bond strength
- Tear resistant liner that is easily die cut

### Applications:



#### Portable Heaters

Heaters can range from composite repair heaters to portable units for military, aerospace and consumer use. Each application requires an extremely strong bond to silicone and the ability to maintain this strength through high and low temperatures.



#### Flexible Circuits

Commonly utilized in electronics, aerospace and diagnostic equipment, the advantage ARclad silicone tapes provide is a reliable bond under malleable and high temperature stresses. Conformance and flexibility gives you a competitive advantage.



#### Silicone Gaskets

Chosen for their excellent resistance to chemicals, water, fire, fungal growth, ozone, heat and aging, ARclad silicone tapes enable these gaskets to bond under extreme circumstances.

# Silicone Product Information Grid

| Product      | Construction | Total Thickness | Adhesive Thickness | Liner(s) Thickness | Temperature Range | Liner     |
|--------------|--------------|-----------------|--------------------|--------------------|-------------------|-----------|
| ARclad® 7876 | Transfer     | 6.2 mils        | 2.2 mils           | (1) 4 mils         | -100°F to 500°F   | Polyester |
| ARclad® 8026 | Transfer     | 5 mils          | 1 mil              | (1) 4 mils         | -100°F to 500°F   | Polyester |
| ARclad® 8458 | Double-Faced | 9.3 mils        | 5.3 mils           | (2) 2 mils         | -100°F to 500°F   | Polyester |

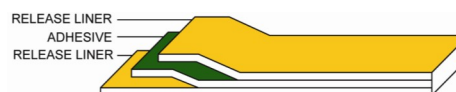
Product Samples available in:  
2" x 15' / 6" x 15' / 9" x 15'

## Tapes & Adhesives Guide

### Transfer Films

Adhesive is coated directly onto a release liner, allowing transfer films to be the most flexible and conformable of all ARclad® bonding systems.

- Bonds with consistently thin bond line
- Bonds and splices to a variety of industrial substrates
- Conforms well to irregular surfaces



### Double-Faced Tapes

Double-faced tapes have a carrier that is coated on both sides with an adhesive, eliminating heat and solvent cure cycles. The instant bonding capabilities of ARclad® double-coated tapes make them very conducive to automation and high-speed processing.

- Bonds rigid materials to irregular surfaces
- Compensates for thermal expansion and contraction
- Reduces sound, shock and vibration
- Offers ease of handling
- Allows use of two different adhesives per application



Call 800-445-6240 for samples and to discuss silicone bonding products for your projects.  
Or email [info@arglobal.com](mailto:info@arglobal.com) with the product and size you would like to sample.

Users should test all products to ensure it meets the specific needs of their application(s).  
Adhesives Research can tailor the product to meet the needs of specific applications as requested by customers.

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