

Thermabond® Adhesives

Thermally Conductive Adhesives For
High Reliability

Bond Reliability

Bonds securely to many substrate types, shapes, or textures

Hot Spot Elimination

Thermal conductivity up to 2.5W/mK to transport heat away from hot spots

Thermal-Mechanical Stress Decoupling

Low modulus and high shear strength prevent adhesive delamination

Low Temperature Cure Cycle

Thermabond cure parameters can be as low as 100°C at 100 kPa, so surface mount components can be mounted on the PCB prior to bonding

Uniform Bond Line Thickness

Precision calendaring produces a uniform adhesive film

Proven Performance

ARLON® Thermabond® adhesive products are the gold standard for critical, demanding electronic system applications

| Properties | A5 Thermabond | A3 Thermabond | Supported Thermabond | Electrically Conductive Thermabond | Primerless Thermabond | Original Thermabond |
|--------------------------|------------------|------------------|----------------------|------------------------------------|-----------------------|---------------------|
| Part Number** | 99A50X008 | 99A30X008 | 48991A010 | 99730N004 | 99990A008 | 99510N008 |
| Tc (W/m-K) @ 100°C | 1.4 | 1.0 | 0.4 | 2.5 | 0.4 | 0.4 |
| Thermal Resistance | 9.6E-05 | 2.1E-04 | 7.1E-04 | - | 5.2E-04 | 5.7E-04 |
| Shear Modulus (psi) | 145 | 30 | 50 | - | 75 | 100 |
| Lap Shear Strength (psi) | 500 | 290 | 710 | 509 | 1000 | 600 |
| Bonds Without Primer | Yes | Yes | Yes | No | Yes | No |
| Bond/Cure | Vacuum or Platen | Vacuum or Platen | Vacuum or Platen | Vacuum or Platen | Vacuum or Platen | Vacuum or Platen |
| Electrical | Insulative | Insulative | Insulative | Conductive | Insulative | Insulative |
| Thickness Range | 0.004" & up | 0.004" & up | 0.008" & up | 0.008" & up | 0.004" & up | 0.004" & up |
| Fiberglass Reinforcement | No | No | Yes | No | No | No |

** Part Number Example: 99A90X### (### = 008 = 0.008" Thickness)

A5 Thermabond is the recommended replacement for discontinued A7
9973 is the recommended replacement for discontinued 9995