



# UltraPad® Press Pads

Reusable silicone press pads for circuit lamination in traditional and fast press processes

Arlon® UltraPad® press pads provide circuit manufacturers a **low cost per cycle** option for applying even pressure to all types of circuits in both traditional and fast press lamination processes.

- UltraPad MR** A fiberglass-reinforced silicone rubber press pad offering exceptional resistance to mar and best-in-class thermal stability that yields unmatched stability of hardness, thickness, and pressure uniformity. UltraPad MR delivers the most stable, long term performance of reusable press pads.
- UltraPad D75** A fiberglass-reinforced silicone rubber press pad offering a higher level of conformability than MR. The optimized viscoelastic properties allow D75 to conform to varied narrow pitch circuit designs.
- UltraPad D65** A fiberglass-reinforced silicone rubber press pad offering fast thermal transfer and long cycle life in fast press processes.
- UltraPad AC** An unreinforced silicone rubber press pad with tempered aluminum bonded to one side for pressure distribution and platen protection in fast press processes.

Properties	Unit	UltraPad MR	UltraPad D75	UltraPad D65	UltraPad Al-Clad
Application	---	Traditional & Fast Press	Traditional & Fast Press	Fast Press	Fast Press
ARLON Part Number	---	55833R062AC	55173R062	51073G031D	91B32R016AC
Thickness*	Mils	62	62	31	16
Thickness*	mm	1.6	1.6	0.8	0.4
Color	---	Red	Red	Green	Red
Durometer	Shore A	81	75	81	---
Aluminum Rigidity	grams	N/A	N/A	N/A	8,500
Service Temperature	°C	Up to 300	Up to 300	Up to 300	Up to 300
Service Pressure	PSI	Up to 1,450	Up to 725	Up to 725	Up to 1,450
Service Pressure	MPa	Up to 10	Up to 5	Up to 5	Up to 10

\* Custom thicknesses available

Additional information can be located at [www.rogerscorp.com/arlon](http://www.rogerscorp.com/arlon)

# UltraPad® Material

Silicone oil leakage is the visible indicator that the silicone rubber has begun to degrade. The observation of silicone oil leakage does not in and of itself mean the press pad is no longer usable but it does mean the physical properties of the press pad are beginning to change. Circuit manufacturers concerned with oil leakage should choose UltraPad® MR to realize long times to initial oil leakage and low rates of oil leakage.

## Here is what circuit manufacturers are saying about UltraPad MR:

A Lamination Engineer at a Global FPC Manufacturer...

...was able to improve machine availability by using ARLON UltraPad MR in her process because it eliminated the need to reapply talc to control surface tack and eliminated the need to clean up leaked oil due to thermal breakdown of the press pad.

A Process Engineer at a Global FPC Manufacturer...

...the relevant test results showed that ARLON UltraPad MR's heat resistance is much better than our currently used silicone rubber press pad.

- Cycle life increased 2,500%
- Impedance pass rate increased to 100%
- Component shift pass rate increased from 13% to 71%
- Final dimension pass rate increased from 94% to 99%

See the difference in oil leakage between UltraPad MR and competitors in time lapse videos available at [www.rogerscorp.com/presspad](http://www.rogerscorp.com/presspad)

