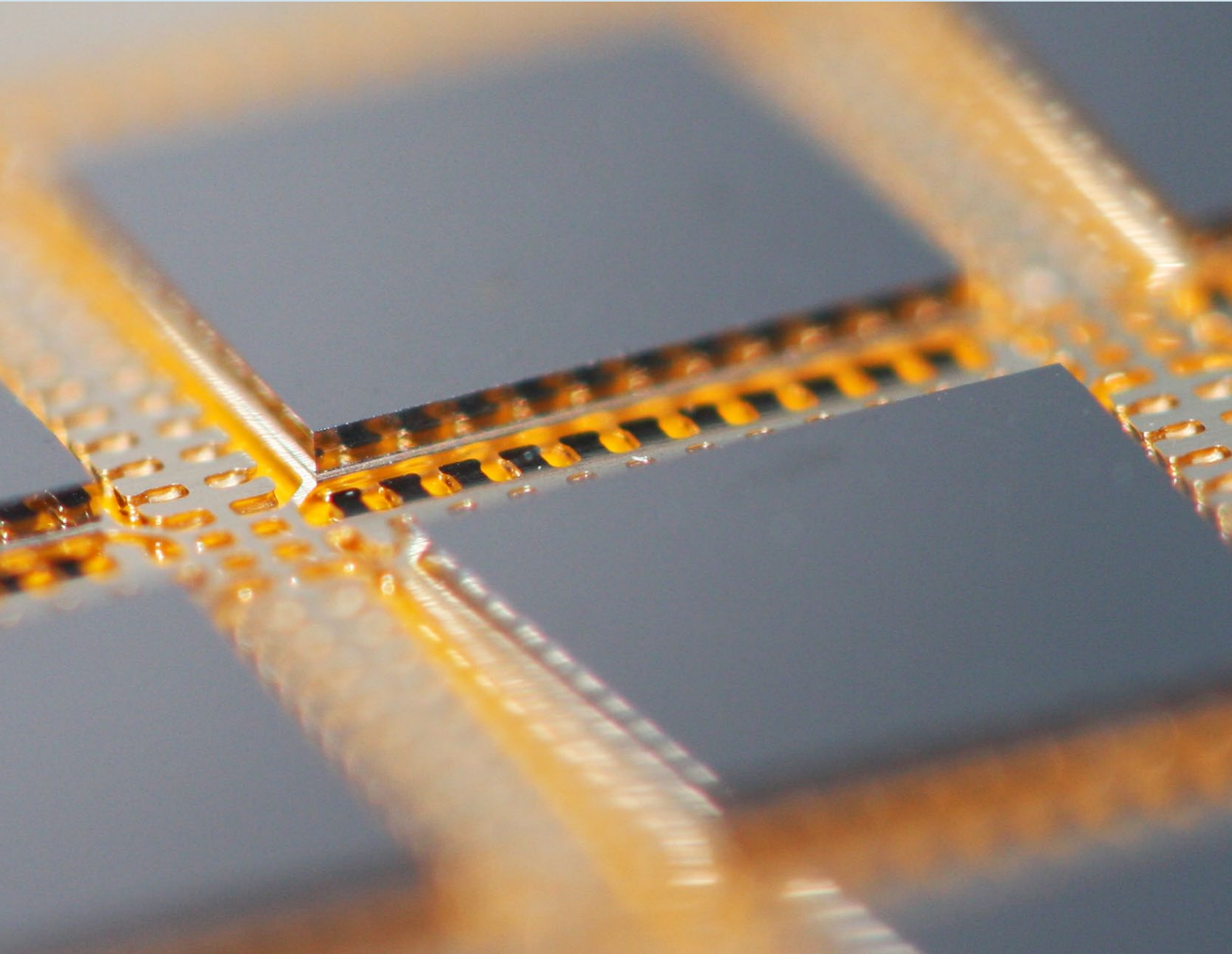


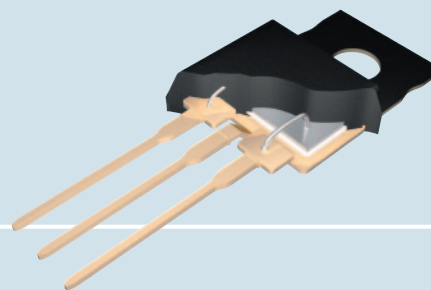
# Ablestik C100 Series

Conductive Die Attach Film



As wafers become thinner and thinner to meet stacking requirements, new materials technology must address the handling and processing challenges of smaller than 6x6mm die sizes. At the same time, the good electrical conductivity, improved reliability and ease-of use are required to enable the advancement of modern, integrated power IC packages. Henkel's materials offer the solution – Ablestik conductive die attach films C100 series deliver the electrically conductive and thermally conductive performance. They are also compatible with all clean leadframe finishes. These films enable the controlled flow and fillet size, the consistent bondline thickness and clean dry process for small to mid-size die.





# Ablestik C100 Series



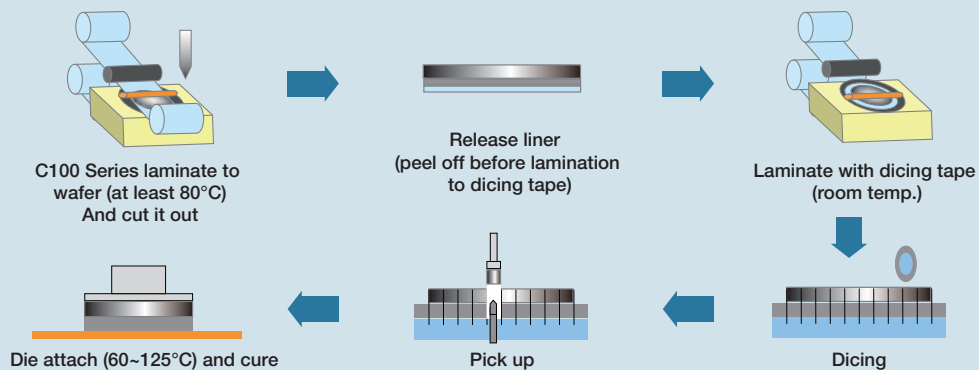
## Two Film Thickness Available

Ablestik C115	Ablestik C130
15 $\mu\text{m}$	30 $\mu\text{m}$

## Key Material Properties

Volume Resistivity (ohm-cm)		0.0003
Moisture absorption (wt%)		0.42
CTE	Alpha 1 (ppm)	47.2
	Alpha 2 (ppm)	119.8
	Tg by TMA ( $^{\circ}\text{C}$ )	38.7
DSC	First onset ( $^{\circ}\text{C}$ )	114
	First peak ( $^{\circ}\text{C}$ )	135
	Second onset ( $^{\circ}\text{C}$ )	167
	Second peak ( $^{\circ}\text{C}$ )	200
DMA	-65 $^{\circ}\text{C}$ (MPa)	11,240
	25 $^{\circ}\text{C}$ (MPa)	8,666
	250 $^{\circ}\text{C}$ (MPa)	1,479

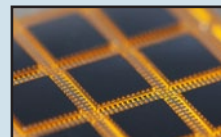
## General Process Flow



## Reliability Performance

	Lead frame	L3 @260 $^{\circ}\text{C}$	L2 @260 $^{\circ}\text{C}$
Die Attach Adhesive	Ag plated Cu	Pass	Marginal
	PPF	Pass	Fail
	Cu	Pass	Marginal
Ablestik C100 (30 $\mu\text{m}$ thick)	Ag plated Cu	Pass	Pass
	PPF	Pass	Pass
	Cu	Pass	Pass

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