

ACF Anisotropic Conductive Film
3T Frontiers Pte Ltd

Standard Specifications
ACF for OLB

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Items		Unit	OLB-1	OLB-2	OLB-3	OLB-HED	Remarks	
Standard Specification	Thickness	μm	14	15	15	10	Customer option	
	Width	mm	1.2, 1.5, 2.0	1.0, 1.2, 1.5	0.8, 1.0, 1.2, 1.5	≥ 0.8	Customer option	
	Length	m	50, 100, 200	100, 200	50, 100, 200	100	Customer option	
	No. of layer	-	1 layer	2 layer	2 layer	2 layer	ACF 5μm + NCF 5μm	
	Release Film	Type	-	White PET	White PET	White PET	White PET	
		Thickness	μm	50 (±5.0)	50 (±5)	50(±5.0)	50 (±5.0)	
	Conductive Filler	Type	-	Ni/ Polymer	Ni/ Polymer	Ni/ Polymer	Ni/ Polymer	
		Diameter	μm	3	4	4	3.0 ±1	
		Density	pcs/mm ²	14,500	5,000	5,000	8,000	
	Min. insulation Space		μm	4	7	7	4	
Min. Contact area		μm ²	4,000	7,000	7,000	1,500	Avg-3σ ≥5	
Bonding Conditions	Pre-bonding	Temperature	°C	70 ± 10	70 ± 10	70 ± 10	70 ± 10	Ultimate Temp of ACF
		Time	sec	1 ~ 2	1 ~ 2	1 ~ 2	1 ~ 2	
		Pressure	Mpa	1 ~ 2	1 ~ 2	1 ~ 2	1 ~ 2	
	Final bonding	Temperature	°C	150 ~ 200	130 ~ 190	140 ~ 190	150 ~ 190	Ultimate Temp of ACF
		Time	sec	≥ 4	≥ 4	≥ 4	≥ 4	
		Pressure	MPa	3 ~ 5	3.0 ~ 5.0	3.0 ~ 5.0	3.0 ~ 6.0	
Shelf Life	Before open	Month	6	4.5	4.5	4.5	-5°C ~ 5°C	
	After open	Week	1	1	1	1	25°C, 75%RH or below	
Characteristics	Connection Resistance		Ω	< 5	< 5	< 5	< 5	4-point method
	Insulation Resistance		Ω	> 10 ⁹	> 10 ⁹	> 10 ⁹	> 10 ⁹	2-point method
	Adhesion Strength (at 25C)		gf/cm	> 700	> 700	> 700	> 700	90° Peel strength 50mm/min
	Acceptable Reaction Rate		%	> 80	> 80	> 80	> 80	by FT-IR method

Remarks : All specifications are subjected to changes without prior notice. Please contact us for latest datasheet/test report.

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