

ACF Anisotropic Conductive Film
3T Frontiers Pte Ltd

Standard Specifications
ACF for FPM (Fingerprint Module)

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Items		Unit	FPM-1	FPM-2	Remarks	
Standard Specification	Thickness	μm	18, 20, 25	35	Customer option	
	Width	mm	0.6, 0.8, 1.0, 1.2	1.5 ~ 21.0	Customer option	
	Length	m	50, 100, 200	50, 100	Customer option	
	No. of layer	-	1 layer	1 layer		
	Release Film	Type	-	White PET	White PET	
		Thickness	μm	50 (±5)	50 (±5)	
	Conductive Filler	Type	-	Ni/ Polymer	Au/ Ni/ Polymer	
		Diameter	μm	8	30	
		Density	pcs/mm ²	820	200	
	Min. insulation Space		μm	20	150	
Min. Contact area		μm ²	25,000	80,000	Avg-3σ ≥5	
Bonding Conditions	Pre-bonding	Temperature	°C	70 ~ 100	60 ~ 80	Ultimate Temp of ACF
		Time	sec	1 ~ 3	1 ~ 3	
		Pressure	Mpa	0.5 ~ 1.5	1 ~ 3	
	Final bonding	Temperature	°C	140 ~ 160	130 ~ 190	Ultimate Temp of ACF
		Time	sec	≥ 5	≥ 4	
		Pressure	MPa	2 ~ 4	1 ~ 3	
Shelf Life	Before open	Month	6	6	-5°C ~ 5°C	
	After open	Week	1	1	25°C, 75%RH or below	
Characteristics	Connection Resistance		Ω	< 5	< 5	4-point method
	Insulation Resistance		Ω	> 10 ⁹	> 10 ⁹	2-point method
	Adhesion Strength (at 25C)		gf/cm	> 800	> 800	90° Peel strength 50mm/min
	Acceptable Reaction Rate		%	> 75	> 75	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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