

**ACF Anisotropic Conductive Film**  
**3T Frontiers Pte Ltd**

**Standard Specifications**  
**ACF for FOG (LCD/ OLED)**

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Items		Unit	FOG-1	FOG-2	FOG-3	Remarks	
Standard Specification	Thickness	μm	25	18, 20, 25	18, 20, 25	Customer option	
	Width	mm	1.5, 3.0	0.6, 0.8, 1.0, 1.2	0.6, 0.8, 1.0, 1.2	Customer option	
	Length	m	50, 100	50, 100, 200	50, 100, 200	Customer option	
	No. of layer	-	1 layer	1 layer	1 layer		
	Release Film	Type	-	White PET	White PET	White PET	
		Thickness	μm	50 (±5.0)	50 (±5)	50(±5.0)	
	Conductive Filler	Type	-	Au/Ni/Polymer	Ni/Polymer	Ni/polymer	
		Diameter	μm	10 (±1)	5	4	
		Density	pcs/mm <sup>2</sup>	800	6,000	6,000	
	Min. insulation Space		μm	50	12	12	
Min. Contact area		μm <sup>2</sup>	50,000	13,000	13,000	Avg-3σ ≥5	
Bonding Conditions	Pre-bonding	Temperature	°C	80 ± 10	70 (60~100)	70 (60 ~ 100)	Ultimate Temp of ACF
		Time	sec	1 ~ 3	1 ~ 3	1 ~ 3	
		Pressure	Mpa	≥1	0.5 ~ 1.5	1 (0.5 ~ 1.5)	
	Final bonding	Temperature	°C	180 ~ 200	140 ~ 180	140 ~ 180	Ultimate Temp of ACF
		Time	sec	≥ 8	≥ 5	≥ 5	
		Pressure	MPa	2 ~ 4	2.0 ~ 4.0	2.5 ~ 4.0	
Shelf Life	Before open	Month	6	6	6	-5°C ~ 5°C	
	After open	Week	1	1	1	25°C, 75%RH or below	
Characteristics	Connection Resistance		Ω	< 3	< 5	< 5	4-point method
	Insulation Resistance		Ω	> 10 <sup>9</sup>	> 10 <sup>9</sup>	> 10 <sup>9</sup>	2-point method
	Adhesion Strength (at 25C)		gf/cm	> 700	> 800	> 800	90° Peel strength 50mm/min
	Acceptable Reaction Rate		%	> 75	> 75	> 75	by FT-IR method

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

**GLOBAL SHIPPING**