

ACF Anisotropic Conductive Film
3T Frontiers Pte Ltd

Standard Specifications
ACF for Touch (Glass/ Film)

Website : <https://ACFFilm.com>

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| | Items | | Unit | TOU-1 | TOU-2 | Remarks |
|------------------------|----------------------------|-----------------|---------------------|-------------------|-------------------|----------------------------|
| Standard Specification | Thickness | | μm | 25 | 18 | Customer option |
| | Width | | mm | ≥0.6 | 0.8, 1.0, 1.2 | Customer option |
| | Length | | m | 50, 100 | 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 | 5 | 10 | |
| | | Density | pcs/mm ² | 6,000 | 700 | |
| | Min. insulation Space | | μm | 20 | 50 | |
| Min. Contact area | | μm ² | 15,000 | 50,000 | Avg-3σ ≥5 | |
| Bonding Conditions | Pre-bonding | Temperature | °C | 60 ~ 100 | 60 ~ 80 | Ultimate Temp of ACF |
| | | Time | sec | 1 ~ 3 | 1 ~ 3 | |
| | | Pressure | Mpa | 0.5 ~ 1.5 | ≥1 | |
| | Final bonding | Temperature | °C | 130 ~ 160 | 150 ~ 190 | Ultimate Temp of ACF |
| | | Time | sec | ≥ 5 | ≥ 8 | |
| | | Pressure | MPa | 2 ~ 4 | 2 ~ 4 | |
| 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 | < 3 | 4-point method |
| | Insulation Resistance | | Ω | > 10 ⁹ | > 10 ⁹ | 2-point method |
| | Adhesion Strength (at 25C) | | gf/cm | > 500 | > 500 | 90° Peel strength 50mm/min |
| | Acceptable Reaction Rate | | % | > 75 | > 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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