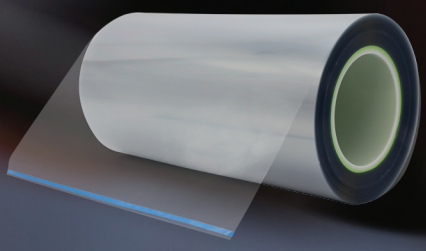
3M Science. Applied to Life.™

Foldable displays you can rely on.

3M™ High Performance Clean Adhesive Transfer Tape 74/75/77/79000NH Series



Keep foldable displays looking like new.

Foldable organic light-emitting diode (OLED) displays can consist of many film layers — all bonded together. As devices are continuously folded and unfolded, stretched or bent, this creates stress between the layers, making maintaining good aesthetics a real challenge.

With low modulus at low temperature, 3M™ High Performance Clean Adhesive Transfer Tape 74/75/77/79000NH Series offers outstanding bonding performance and surface quality. The result is a reliable bonding solution to help keep your displays in shape.

Low modulus
to help reduce stress in the OLED panel layers and for reliability during folding

Reliable peel adhesion
on various substrates (PET, SUS, PI, etc.)

Maintains performance
even under harsh conditions like high humidity and extreme temperatures

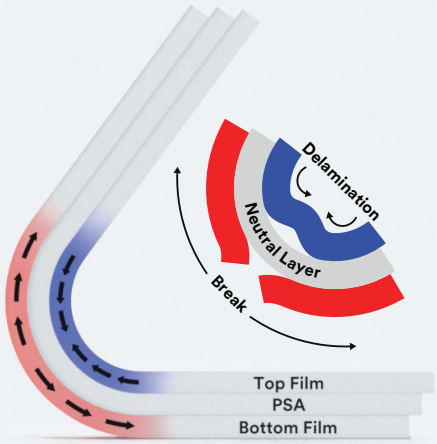
Good liner release
for efficient convertibility

Clean removal
on display side at high temperatures (75°C, 15 minutes)

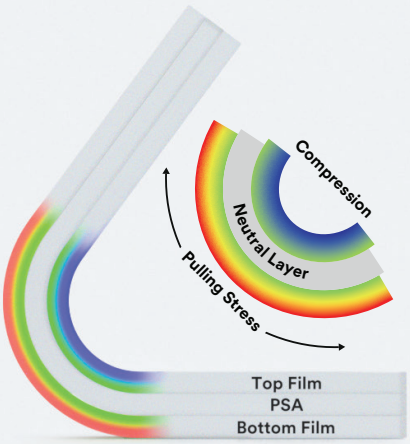
How stress is created during folding and unfolding.

Standard pressure sensitive adhesive (PSA) creates stress when it's folded in a stack. The bond should be flexible so layers can move independently.

- Expansion stress
- Contraction stress
- No stress



Standard PSA

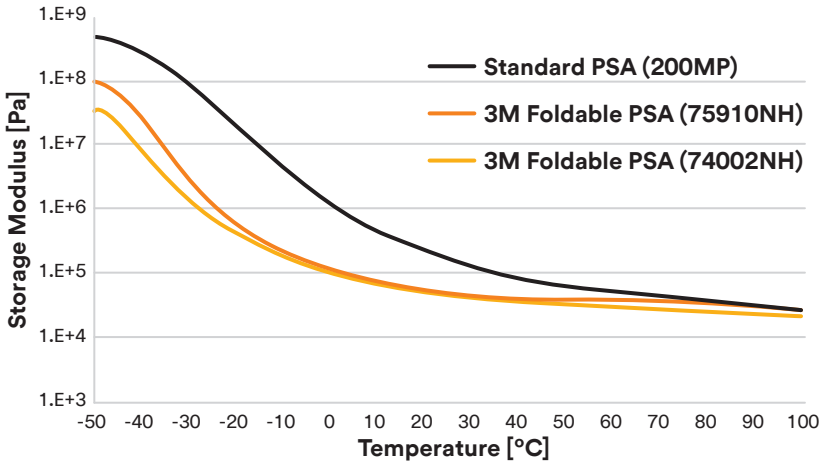


3M Foldable PSA

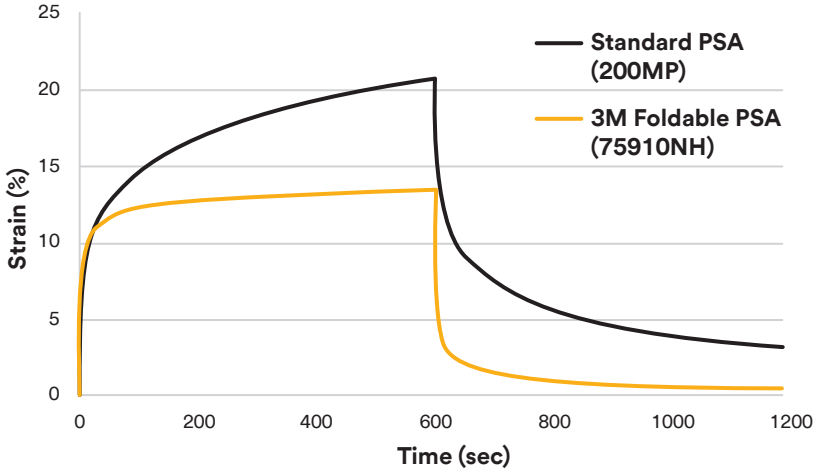
Ideal rheology for foldable devices.

Low modulus at low temperatures (<-20°C) helps reduce risk of display cracking and buckling during folding and unfolding (dynamic deformation).

Low and long plateau modulus at high temperatures helps reduce risk of delamination and wrinkles when folded (static deformation).



Low creep and high recovery help reduce risk of deformation and oozing during converting.



A variety of configurations to adapt to your display designs.

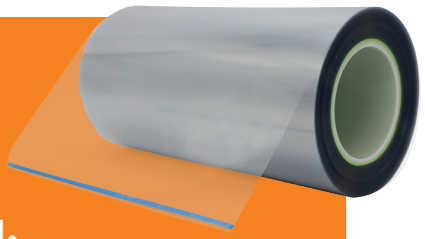
Color: Clear
Format: ATT

Thickness

	25um	75um	100um	110um	200um	200um
3M Tape	**74002NH**	**74207NH**	**75910NH**	**75911NH**	**77920NH**	**79220NH**
Tg	-35°C	-36°C	-25°C	-24°C	-35°C	-30°C
Modulus at -20°C	0.3MPa	0.3MPa	0.6MPa	0.7MPa	0.4MPa	0.3MPa
25°C	0.04MPa	0.05MPa	0.05MPa	0.07MPa	0.05MPa	0.04MPa
85°C	0.03MPa	0.03MPa	0.03MPa	0.05MPa	0.04MPa	0.02MPa
Key Features	Thin tape, low creep	Low creep	Low modulus	Higher modulus, low creep	Thick, lower modulus, excellent shear fluidity	Thick, peel, lowest modulus

Ask for Material Data Card: We measure rate- and temperature-dependent behavior over a wide range of conditions and model the material response using linear viscoelasticity in any direction (tensile, compression, shear).

Ask your 3M sales representative how 3M™ High Performance Clean Adhesive Transfer Tape 74/75/77/79000NH Series can work for you.



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