

The Adherent®

Technology from the tape company you can depend on

Clearly Tough Enough High-Endurance Optical Grade Adhesives

The displays found in military, industrial and aerospace applications require specialized components to enhance their durability and longevity.

ARclear® rugged optically clear pressure sensitive adhesives (PSAs) offer comparable bonding and impact performance to liquid adhesives in a convenient, easy-to-handle PSA roll format for enhanced manufacturing efficiencies in the production of rigid-to-rigid displays.

The ARclear product line is known in the industry for:

- Non-birefringence
- High light transmission
- Defect free bonding
- Low haze
- High clarity

The new ARclear rugged optically clear PSAs combine all these features with the added benefit of a thick, tailorable optical adhesive for the most demanding applications.



Key Performance Traits:

- Provide high optical transparency and reliable bonds across the entire glass viewing surface
- Offer unique light management performance properties combined with enhanced durability
- Good resistance to temperature extremes, moisture, humidity and UV light
- Non-corrosive to ITO
- Engineered to work in concert with companion display materials, films and other components

ARclear rugged PSAs are available in optical grade silicone, acrylic and rubber chemistries in adhesive thicknesses ranging from 3 mils (76 µm) to 17 mils (425 µm).

ARclear 93099 Optical Acrylic PSA

This 17-mil (425 µm), melt process/UV cure-in-place PSA construction activates and cures through a dual process for greater control to achieve clean laminations.

ARclear 93230 Optical Rubber PSA

A 3-mil (76 µm) transfer adhesive construction, this product offers a high refractive index, good moisture barrier properties, and good performance in heated and ambient lamination processes.

ARclear 93227 and 93228 Optical Silicone PSAs

These 5-mil (125 µm and 10-mil, 254 µm) flame resistant transfer adhesives offer high heat resistance (up to 260°C), a low refractive index and perform well in low and high temperature conditions.