

SOLSTICE ACLAR[®]

THERMOFORMABLE FILM

VALUE PROPOSITION

DEVELOPED BY SOLSTICE, ACLAR[®]

Is a clear, high-barrier poly-chloro-tri-fluoroethylene (PCTFE) thermoformable material used in oral solid dose blister packaging, a common pharmaceutical package. Aclar is also used in primary and secondary packages of medical devices and for supplements.

FOR CUSTOMERS WHO NEED

- A reliable product that provides them good patient outcomes, and drug stability and efficacy all climatic zones.
- To ensure patient adherence & safety for positive patient outcomes.
- Ultra-high moisture barrier, crystal-clear clarity.
- PVC-free packaging to protect medication.
- Minimize packaging and reduce waste to achieve their sustainability goals.

WE DO THIS BY:

- Providing superior moisture barrier available in a wide range of finished laminate structures with different substrates.
- Shelf life and stability for drug products worldwide distribution, including Zone 4 tropical locations.
- Enabling companies to design tailor-made, multi-layer structures that can address specific functional requirements, making it one of the most adaptable materials available in the market.
- Low push through force enhancing the user experience.
- Unique composition allows for significantly thinner and smaller structures to be used in packaging applications.

AS PROVEN BY:

- Trusted brand with more than 40 years in industry.
- Technical data sheets.
- Track record of being selected for the most demanding applications, such as drug products with high moisture sensitivity or the need to pass the accelerated stability trials as set forth by ICH.
- All Aclar fluoropolymer films comply with FDA regulation #21 CFR 177.1380, Drug Master File #1578.

FEATURES & BENEFITS

- Offers high and ultra-high moisture barrier, and medium gas barrier.
- Substrate polymer agnostic enables adaptability.
- Available in a wide range of gauges for different moisture barrier requirements.
- Shelf life and stability for drug products worldwide distribution, including Zone 4 tropical locations.
- Highest moisture barrier polymer per unit thickness means thin film without compromised barrier.
- Reduces pack size, waste, and carbon emissions (when compared to the same product packaged in cold form foil).



CUSTOMER PAIN POINTS

- Failing stability tests.
- Poor performance of drug product.
- Maintenance of equipment due to corrosion (PVdC off-gassing).
- Product package does not meet consumer preference (no clarity when using CFF) or yellowing.
- Line speed and low productivity (vs CFF and HB PVdC).
- Large pack sizes and more waste (using CFF).

COMPETITIVE OVERVIEW

Next best alternative:

- Cold Form Foil (CFF)
- PVdC
- HB PVdC
- PP/COC/PP
- Bottles/Amber Vials

SUSTAINABILITY PROPOSITION

THE REDUCTION STORY

Reduced Pack Size:

- Reduction in pack size when compared to Cold Form Foil.
- Reduction in barrier material when compared to High Barrier PVdC.
- Smaller pack size enables more product per pallet & optimizes logistics and transportation aspects of the supply chain, saving money.

Reduced waste:

- Pottsville to become a Zero to Landfill facility.
- Reduced use of raw materials (yield).
- Lower scrap production when compared to CFF.
- Reduced volumes across Primary, Secondary and Tertiary packaging.

Reduced Emissions:

- Reduced packaging volumes and weight reduces transportation related environmental impact.
- Continued trend of carbon footprint reduction associated with the product.
- Aclar's PCF (32 kg of CO₂ per KG) is lower than many people think.
- We have a positive story about emissions reduction.
- PCF down by 50% since 2012.
- Will decrease by a further 20% to be published in 2026.

THE PVC-FREE STORY

- Aclar is polymer agnostic, meaning it can be laminated to any base material the customer desires.
- PVC, the most common base material used in pharma is problematic polymer and a contaminant of mechanical and advanced recycling streams.
- Moving from PVC to PET substrates has no impact on thickness or WVTR.
- Customers can also choose to laminate Aclar to PP or PE.

THE RECYCLABILITY STORY

- Certified as Technically Recyclable.
- Working with advanced recyclers and academics to identify the potential for circularity and recycled CaF₂.

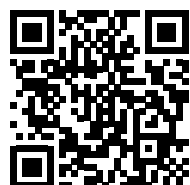
TOPICS TO AVOID OR DEBUNK

- PFAS.
- 100 % recyclable / Recycle Ready – Debunk myths explain why ALL blisters need recycling to enable financial / societal viability.
- Halogen Free.

QUESTIONS

Important to start by asking customer questions to identify pain points:

- Why does the client want to be sustainable? What are their key drivers? (Pressure from consumers, shareholders, retailers)
- What are their corporate sustainability goals?
- What's most important to the client? Decarbonisation, EoL, Recyclability, Recycled Content, Waste reduction.
- What percentage of the PCF is attributable to the packaging?
- What have they done to reduce emissions in general?



For More Information Visit

solstice.com

Solstice Advanced Materials Inc.

115 Tabor Rd. | Morris Plains, NJ 07950



© 2026 Solstice Advanced Materials Inc.

6773800 | Solstice Aclar® Thermoformable Film |
Battlecard | 441 DPH | 04.2026