



PROFESSIONAL PLASTICS, INC.

Leading Global Supplier of Engineered Plastic Shapes

USA Phone (888) 995-7767 – Asia Phone +65-6266-6193

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Aclar® PCTFE Film



A high-density fluorocarbon film with excellent water vapor barrier properties; ideal for long-term storage of hygroscopic powders and similar materials. Provides Level I protection for aerospace and military applications, as well as the pharmaceutical, medical and electronics industries.

ACLAR® is a flexible thermoplastic film made from fluorinated-chlorinated resins. The fluorine in its structure gives the film excellent thermal and chemical stability. Aclar is one of the best moisture vapor barriers among transparent films.

Features:

- Extremely low permeability to water vapor and other gases
- Compatible with nitrogen oxide
- Does not crack in extreme cold
- Sterilizable by heat, gas and radiation (below 2 MR)
- Non-flammable
- Extremely inert
- Heat-sealable
- Excellent solvent resistance
- Superior electrical insulating properties
- Produced in three basic types, ACLAR® 22A, ACLAR® 22C and ACLAR® 33C.
- Cleaned and packaged in our Class 10/100 clean room to Clean Room Products Level I. (Other government, industry and company specs met on request.)

Sheets and bags in a variety of standard sizes and thicknesses. Custom sizes and gauges also available.

PROPERTIES OF ACLAR ®22A, 22C, AND 33C				
Property	Test Method	Typical Values		
		22A	22C	33C
Tensile Strength* at Break (PSI) MD TD	D-882	7500-11000 5500-8000	4000-6000 4000-6000	9500-11500 5500-8000
Elongation, *, % at Break MD TD	D-882	115-225 200-300	200-300 200-300	50-150 50-150
Impact Strength* (kg/cm)	T.M. Long Machine	347	1200	<57
Melting Point (°C)		(183-186)	(183-186)	(202-204)
Flammability	D-568-61	Non- Flammable	Non- Flammable	Non-Flammable
Optical		Clear	Clear	Clear
Specific Gravity	ASTM-D1004	380	465	400
Tear Strength MD TD		360	415	380

*Values are for 1 mil film.

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