

## Asahi Glass F-Clean® Film for Greenhouses

Category : Polymer , Film , Thermoplastic , Fluoropolymer , ETFE/ECTFE , Fluorocarbon ETFE/ECTFE , Molded/Extruded

### Material Notes:

F-CLEAN®, produced by Asahi Glass Company, Ltd., is a Ethylene-Tetrafluoroethylene copolymer (ETFE) film used as the preferred covering material for horticultural greenhouses. High tensile strength compared with other plastic films High visible light transmission exceeds 90% and provides an environment inside the greenhouse very similar to outdoors. Low degradation from sunlight and heat. Useful lifetime usually exceeds ten years. Very easily cleaned by rain and snow. Information provided by Asahi Glass Company, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Asahi-Glass-F-Clean-Film-for-Greenhouses.php](http://www.lookpolymers.com/polymer_Asahi-Glass-F-Clean-Film-for-Greenhouses.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 g/cc	1.75 g/cc	ASTM D792
Water Absorption	0.030 %	0.030 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	>= 39.0 MPa	>= 5660 psi	JIS K7127
Elongation at Break	200 - 510 %	200 - 510 %	JIS K7127

Thermal Properties	Metric	English	Comments
CTE, linear	94.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	52.2 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	ASTM D696
Melting Point	260 $^{\circ}\text{C}$	500 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	150 - 180 $^{\circ}\text{C}$	302 - 356 $^{\circ}\text{F}$	Continuous

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
Dielectric Constant	2.6 @Frequency 1e+6 Hz	2.6 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	120 kV/mm	3050 kV/in	ASTM D149
Dissipation Factor	0.00060 @Frequency 60 Hz	0.00060 @Frequency 60 Hz	ASTM D150
	0.00080 @Frequency 1000 Hz	0.00080 @Frequency 1000 Hz	ASTM D150

Electrical Properties	0.0050 Metric	0.0050 English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.010	0.010	ASTM D150
	@Frequency 1e+9 Hz	@Frequency 1e+9 Hz	
Arc Resistance	120 sec	120 sec	ASTM D495

Descriptive Properties	Value	Comments
Chemical Resistance	Excellent	

## Contact Songhan Plastic Technology Co.,Ltd.

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