



Reveal™ ECTFE Fluoropolymer Extruded Films

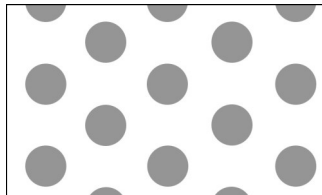
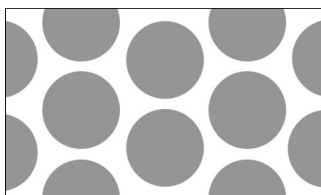
ETHYLENE-CHLOROTRIFLUOROETHYLENE CO-POLYMER FILM FOR USE IN ARCHITECTURAL APPLICATIONS

TCI's Reveal™ ECTFE 700 HC films are produced from high-clarity Ethylene Chlorotrifluoroethylene co-polymer resin grade by melt extrusion casting process. Just like Reveal™ ETFE, ECTFE 700HC films can be heat-sealed, thermoformed, and laminated to various substrates. Compared to ETFE, High Clarity ECTFE films offer similar mechanical, chemical and fire resistance properties. However, ECTFE HC films possess superior light transmission (95%) and lower haze (diffusing light 0.9 %), and thus are ideally suited for architectural applications.



Reveal™ ECTFE 700HC

- Manufactured from specially developed High-Clarity grade ECTFE resin
- ECTFE 700HC possesses the highest clarity and light transmission among all fluoropolymer films
- It retains high transmittance and good mechanical properties after extended periods of UV exposure.
- ECTFE 700HC unique combination of high light transmission, clarity, and durability make it an invaluable material for applications such as architectural roofing
- Available in clear or printed films for solar control and shading. Standard patterns include:



Reveal™ ECTFE 700HC Films Characteristics:

- Highest light transmission (95%) and lowest haze amongst all polymeric films suitable for long-term outdoor exposure in architectural applications
- Thickness range from 100 to 300 µm
- Standard width: 1,550 mm
- Width up to 1,575 mm available
- Any slit widths available upon request
- Plasma treated surfaces available
- Broad continuous use temperature range from -200°C to 150 °C
- Excellent non-stick / release properties
- High elongation and tear resistance
- Superior weatherability in outdoor exposure
- Free of plasticizers, processing aids, or additives

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TEXTILES COATED INTERNATIONAL | Manufacturer of High-Performance Fluoropolymer Films, Composites, and Laminates

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ETHYLENE-CHLOROTRIFLUOROETHYLENE CO-POYMER FILM FOR USE IN ARCHITECTURAL APPLICATIONS

			Reveal™ ECTFE 700HC 250 µm
General Properties	Units	Test Method	
Thickness	µm	DIN 53370	250 +/-25
Mass per Unit Area	g/m ²	DIN 536	430 +/-43
Specific Gravity		ASTM D792	1.70
Flammability		UL-94	V-0
Flammability ¹		DIN EN 13501	B-s1; d0
Flame Propagation ²		NFPA 701-2015	Passed
Mechanical Properties			
Stress at 10% Strain, MD, nominal.	MPa	DIN EN ISO 527-3	22
Stress at 10% Strain, TD, nominal.	MPa	DIN EN ISO 527-3	22
Tensile Strength, MD, nominal.	MPa	DIN EN ISO 527-3	35
Tensile Strength, TD, nominal.	MPa	DIN EN ISO 527-3	35
Strain at Break, MD, nominal.	%	DIN EN ISO 527-3	250
Strain at Break, TD, nominal.	%	DIN EN ISO 527-3	250
Tear Strength, MD, nominal.	N/mm	DIN 53363	300
Tear Strength, TD, nominal.	N/mm	DIN 53363	300
Thermal Properties			
Continuous Use Temp	°F (°C)	UL-746 B	300 (150)
Melt Point	°F (°C)	ASTM D3418	392 (200)
Dimensional Change, MD, max.	%	150°C, 10 min.	2
Dimensional Change, TD, max.	%	150°C, 10 min.	2
Optical Properties			
Light Transmission, nominal. (Clear)	%	ASTM E424	94
Product Offering			
Width	inches (mm)		Up to 61" (1,550)
Standard Colors			Clear

¹Reaction-to-fire test acc. To EN 13501, Materialprüfungsanstalt Universität Stuttgart

²NFPA 701-2015, Method 1 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films.

The above table contains typical representative values and is not to be used for product specification. Contact TCI for a formal specification.

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