Reveal™ ETFE 300 Micron

Ethylene Tetrafluoroethylene Film for use in Architectural Applications

TCI's Reveal™ ETFE films are produced from ethylene and tetrafluoroethylene co-polymer resin by melt extrusion. Reveal™ ETFE films can be heat-sealed, thermo-formed, and laminated to various substrates. These materials are ideally suited for architectural applications.

TCI's Reveal™ ETFE Film Characteristics

- Thickness: 300 µm
- Width up to 1,550 mm available
- Any slit widths available upon request
- Plasma treated surfaces available

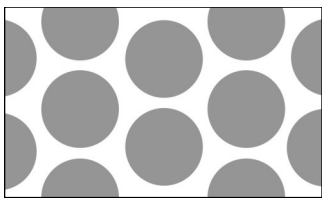
- Broad continuous use temperature range from -200°C to 170°C
- Excellent non-stick / release properties
- High elongation and tear resistance
- Excellent light transmission (>80%) and clarity, high transmittance of ultraviolet and all but far infrared wavelengths
- Superior weatherability in outdoor exposure

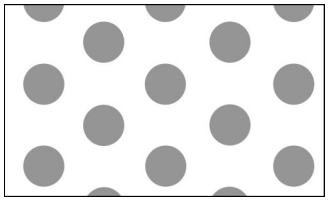
- Free of plasticizers, processing aids, or additives
- Low permeability to liquids, gases, moisture, and organic vapors

TCI's Reveal™ ETFE Films Availability

Reveal™ ETFE AG (Architectural Grade)

- Manufactured from 100% virgin premium grade ETFE resin
- ETFE AG is the grade of choice for applications requiring visual perfection
- ETFE's unique combination of high light transmission, clarity, and durability make it an invaluable material for applications such as architectural roofing
- Available in clear, white, or printed films for solar control and shading. Examples of standard patterns include:





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			Reveal™ ETFE AG 300
General Properties	**Units**	**Test Method**	
Thickness	µm	DIN 53370	300 +/- 30
Mass per Unit Area	g/m^2	DIN 536	530 +/- 52.5
Specific Gravity		ASTM D792	1.74
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	18
Stress at 10% Strain, TD, nominal.	MPa	DIN EN ISO 527-3	18
Tensile Strength, MD, nominal.	MPa	DIN EN ISO 527-3	40
Tensile Strength, TD, nominal.	MPa	DIN EN ISO 527-3	40
Strain at Break, MD, nominal.	%	DIN EN ISO 527-3	400
Strain at Break, TD, nominal.	%	DIN EN ISO 527-3	400
Tear Strength, MD, nominal.	N/mm	DIN 53363	400
Tear Strength, TD, nominal.	N/mm	DIN 53363	400
Thermal Properties			
Continuous Use Temp	°C	UL-746 B	170
Melt Point	°C	ASTM D3418	260
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	86
Product Offering			
Width	mm		1550
Standard Colors			Clear, White, Blue

[1]Reaction-to-fire test acc. to EN 13501, Materialprüfungsanstalt Universität Stuttgart
[2]NFPA 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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