

# SE-381TF

General Description and Use			
Argotec SKU Number	<b>SE-381TF</b>		
Typical application	Standard switchable or decorative glass lamination		
Polymer	EVA ethylene vinyl acetate (copolymer)		
Extrusion method	Flat-die		
Gauge	15-30 mils (375 - 750 microns)		
Width	Up to 80 inches (2.032 meters)		
Length	Up to 140 yards (128 meters)		
Key attributes	<ul style="list-style-type: none"> <li>■ High transparency</li> <li>■ High haze resistance</li> <li>■ Long-term protection against UV-aging, discoloration and weathering</li> <li>■ Blocks UV light below 380 nm</li> <li>■ Non-tacky matte finish</li> <li>■ Plasticizer-free</li> <li>■ Self-priming</li> <li>■ Traditional melt flow (TF) for standard laminated glass applications</li> <li>■ Crosslinked (cured) eliminates creep/cold flow</li> <li>■ High moisture resistance</li> </ul>		
Typical Properties	Method	Unit	SE-381TF
Light transmission	US/VIS	%	90
Refractive index			>1.45
Haze (0.76 mm/0.030 in.)	ASTM D-1003	%	0.56
Yellowness index	ASTM E-313	YI	2.0
Specific gravity		g/cm <sup>2</sup>	0.95
Melting point (uncured)	DSC	°F/°C	160/71
Melt flow rate (uncured)	ASTM D-1238	g/10 min.	5
Tensile strength	ASTM D-638	PSI/MPa	1700/14.5
Elongation	ASTM D-638	%	620
Young's modulus	ASTM D-638	PSI/MPa	827/5.7
Adhesion to glass	ASTM D-903	PLI/N/cm	>50/87.6
Water absorption	ASTM D-570	Wt. %	0.18
Crosslink level	Toluene extraction	%	65-85

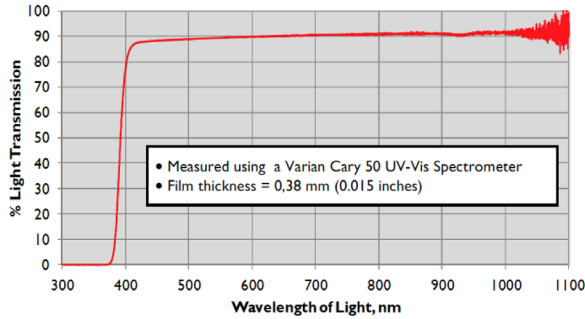


Fig. 1, Typical light transmission spectra

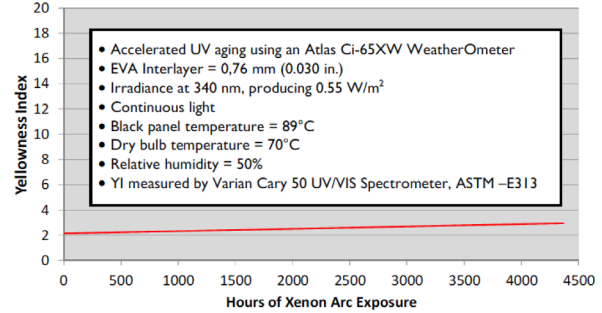


Fig. 2, Typical accelerated UV-aging characteristics

## GENERAL PROCESSING INFORMATION

Lamination can be accomplished by autoclave or by vacuum lamination.

A minimum crosslink level of 65% is recommended to prevent creep at high installation temperatures and should be verified by gel content determinations.

**Vacuum lamination:** Typical process temperatures for the platen range between 239-266°F/115-130°C. Pump down or air evacuation times as required, typically 4-6 minutes. Press times are typically 35 minutes @ 266°F/130°C or 115 minutes @ 239°F/115°C.

**Autoclave lamination:** Pressurize between 125-180 psi. Raise the glass surface temperatures to 115°C and hold for 115 minutes or as required.

Vacuum bagging is recommended.



Product information revised: July 25, 2016

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