

General Description and Use		
Argotec SKU Number	<b>ST-6050</b>	
Typical application	Glass lamination optical interlayer film	
Polymer	Thermoplastic polyurethane, aliphatic polyether	
Extrusion method	Flat die	
Gauge	15 - 75 mils (375 - 1875 microns)	
Width	Up to 60 inches (1.52 meters)	
Length	Up to 500 lin-ft (152.4 meters)	
Key attributes	<ul style="list-style-type: none"> <li>■ Eliminates need for glass surface primer</li> <li>■ Clear, non-yellowing</li> <li>■ Contains additive package for UV resistance</li> </ul>	
Typical Properties	Test Method	Value
Durometer	ASTM D-2240	70A
Specific gravity	ASTM D-792	1.08
Tensile strength @ 100%	ASTM D-638 (Die-IV used with grip separation rate of 20-in./min. on SU 50-mil film)	360 psi (2.48 MPa)
Tensile strength @ 200%		570 psi (3.93 MPa)
Tensile strength @ 300%		1022 psi (7.05 MPa)
Tensile strength @ break		5800 psi (39.99 MPa)
Elongation @ break		540%
Tear strength	ASTM D-624	275 pli (48.13 kN/m)
DSC mid point, T <sub>g</sub> °C	n/a	-60
TMA peak	n/a	190.4°F (88°C)
TMA range	n/a	1491-266°F (65-130°C)
Coefficient of thermal expansion	n/a	~0.0002 L/Lo °C
Compression set, 22 hrs	@72°F/22°C	23
	@158°F/70°C	95
Haze*	ASTM D-1003	<1%
Transmission*		85-95%
Yellowness index*	ASTM E-313	<1
Refractive index*	ASTM D-542	1.4962

\* Film tested between two pieces of 1/8-in. glass; sample size 4"x4"x50-mil; lamination temp 175°F; time & pressure: 2-min. @ 400#, 2-min. @ 600#, 2-min. @ 1000#.

Product information revised: August 7, 2017

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