SolaTuf® AC1
STANDARD IMPACT MODIFIED ACRYLIC FILM

Typical Properties *(for Clear unless otherwise noted)*

	Test Method	Units	Typical Values
Physical			
Specific Gravity	ASTM D-792	–	1.15
Water Absorption, 24 hours	ASTM D-570	%	0.40
Rockwell Hardness	ASTM D-785	M Scale	45
Optical			
Refractive Index @ 77° F (25 ° C)	ASTM D-542	N_D	1.49
Light Transmission	ASTM D-1003	%	90.0
Haze	ASTM D-1003	%	< 4.0
Mechanical			
Tensile Strength, Break	ASTM D-638	psi	5,500
Tensile Elongation, Break	ASTM D-638	%	45
Tensile Modulus of Elasticity	ASTM D-638	psi	270,000
Flexural Strength	ASTM D-790	psi	10,300
Flexural Modulus	ASTM D-790	psi	270,000
Notched Izod Impact @ 73° F (23 ° C)	ASTM D-256	ft-lb / in of notch	1.10
Thermal			
Deflection Temperature under Flexural Load @ 264 psi - annealed	ASTM D-648	°F	175
Coefficient of Thermal Expansion	ASTM D-696	in / in / °F	4.5×10^{-5}
Vicat Softening Temperature	ASTM D-1525	°F	208
Glass Transition Temperature, Tg	ASTM D-3418	°F	217
Maximum Continuous Service Temperature	—	°F	145 – 165

Note

Properties reported here are typical of average lots. Rowland Advanced Polymer Films makes no representation that the material in any particular shipment will conform exactly to the value given herein nor is Rowland Advanced Polymer Films responsible for the performance of this material for a given application. The user of the material should perform their own testing to determine the suitability of the material for the intended use. Applications depicted herein are not specifications. They are provided as information only.

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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Advanced Polymer Films

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