



Technical Datasheet

SecondSky™ Acrylic Greenhouse Roof Heat Blocking PMMA Multiwall Sheet

Life-long UV-resistant. 30-year limited warranty; Easily thermoformed, machined, polished and reshaped

Product Description

SecondSky™ Acrylic Greenhouse Roofs act as an alternative to glass roofs, and are available with a high degree of heat blocking, up to 80%, but with up to 25% more Daily Light transmission than conventional Shade Screens. They have no difference in thermal insulation or durability compared to standard roofs, and come in all standard thicknesses, quality, and width configurations.

	Attribute	Value	Unit	Notes
Technical Data	Thickness	16	mm	
General Properties	Tensile Strength	10,000	psi	
	Flexural Strength	17,000	psi	
	Width	1200	mm	Customisable
	Length	10973	mm	Customisable
	Coefficient of thermal expansion	0.09	mm/m°C	
	Heat transfer coefficient	2.5	w/m²k	
	Possible expansion (Heat / Moisture)	6	mm/m	
	Maximum service temperature (without load)	70	°C	
	Technical Data	Total Transmission of Visible Light	83	%
Optical Properties	NIR Transmission (850 - 1100nm)	45	%	EN 13206
	Lifetime(*) - Non-prorated, Non-yellowing, full replacement	30	years	
Other Properties	Lifetime(*) - Light transmission and hail warranties	10	years	

(*) At a climate of 150 Klys/year (for different radiation conditions or different thicknesses we should be consulted)