Second Sky

Technical Datasheet

SecondSky™ Polyethylene Covers

PE-A High Blocking

Premium quality Polyfilm with 75.4% NIR blocking properties for cooling effect

Product Description

SecondSky™ Polyethylene Covers are an innovative breakthrough in greenhouse technology, featuring an impressive heat blocking capability of up to 80%, coupled with a remarkable 50% increase in PAR light compared to chalking. Their installation and replacement process is identical to that of standard films, with no difference in thermal insulation or durability across all standard thicknesses, quality, and width configurations.

	Attribute	Value	Unit	Notes
Technical Data **General Properties**	Tensile Strength at Break			
	MD	23	MPa	EN ISO 527-3
	TD	23	MPa	EN ISO 527-3
	Elongation at Break			
	MD	675	%	EN ISO 527-3
	TD	715	%	EN ISO 527-3
	Tensile Strength at Yield			
	MD	10	MPa	EN ISO 527-3
	TD	10	MPa	EN ISO 527-3
	Creep			
	MD	5	%	EN 13206
	Dart Test F50			
	Side	>900	cN	SO 7765-1
	Fold	500	cN	SO 7765-1
Technical Data **Optical Properties**	Total Transmission of Visible Light	78	%	EN 2155-5
	Diffusion	75	%	EN 2155-5
	Thermic Effect	80	%	EN 13206
	NIR Transmission (850 - 1100nm)	24.7	%	
Technical Data **Other Properties**	Thickness	200	microns	ISO 4591
	Lifetime(*)	3	years	EN 2155-9
	Additional Properties		Maximum sulphur limit 2000 ppm and maximum chlorine content 100 ppm	

Alternative PE thicknesses, mechanical property/radiation performances available on request

(*) At a climate of 160-180 Klys/year (for different radiation conditions or different thickness, we should be consulted).