

## Greenhouse Film – Lumisol Diffuse (AF Available) 180mu (EN13206)

UV Stability			UV Transmission	
Region	Location	Lifetime on Structure	Wavelength (nm)	Transmission (%)
< 100kLy	Northern Europe	5 years	>300	> 50
101-130kLy	Central Europe	4 years		
131-160kLy	Southern Europe	3 years		

Physical Properties	Description	Units	Test Method	Value <sup>1</sup>
Nominal Thickness	Thickness	µm	ISO 4593	180 (+/-5%)
Elongation at Break MD	% stretch	%	EN ISO 527-3	500-600
Tensile Strength	Tension to break	MPa	EN ISO 527-3	15-25
Impact Strength	Force to break	gms	ISO 7765-1 1988	700-900
Light Properties	Description	Units	Test Method	Value <sup>1</sup>
Light Transmission	Transmission of visible light	%	ASTM D1003-13	87-91
Diffusion	% of scattered light	%	ASTM D1003-13	90-93
Thermicity	Reduction of heat loss	%	BS EN13206	80-85

Berry bpi certifies that Lumisol diffuse AF 180mu will cover 5.56m<sup>2</sup> with a maximum weight of 1kg.

<sup>1</sup> Specified film properties only apply to film tested prior to installation. Please refer to our warranty document for guidelines on proper installation of the film and conditions of use.

In the event of failure, evidence (via XRF analysis) of high levels of sulphur, chlorine or iron will invalidate the guarantee. Specifically, contamination above these levels is excluded:

Sulphur: 1000ppm    Chlorine: 150ppm    Iron: 50ppm

## Greenhouse Film – Lumisol Clear (AF Available) 180mu (EN13206)

UV Stability			UV Transmission	
Region	Location	Lifetime on Structure	Wavelength (nm)	Transmission (%)
< 100kLy	Northern Europe	5 seasons	>300	> 50
101-130kLy	Central Europe	4 seasons		
131-160kLy	Southern Europe	3 seasons		

Physical Properties	Description	Units	Test Method	Value <sup>1</sup>
Nominal Thickness	Thickness	µm	ISO 4593	180 (+/-5%)
Elongation at Break MD	% stretch	%	EN ISO 527-3	500-600
Tensile Strength	Tension to break	MPa	EN ISO 527-3	15-25
Impact Strength	Force to break	gms	ISO 7765-1 1988	700-900
Light Properties	Description	Units	Test Method	Value <sup>1</sup>
Light Transmission	Transmission of visible light	%	ASTM D1003-13	88-92
Diffusion	% of scattered light	%	ASTM D1003-13	30-35
Thermicity	Reduction of heat loss	%	BS EN13206	80-85

<sup>1</sup> Specified film properties only apply to film tested prior to installation. Please refer to our warranty document for guidelines on proper installation of the film and conditions of use.

In the event of failure, evidence (via XRF analysis) of high levels of sulphur, chlorine or iron will invalidate the guarantee. Specifically, contamination above these levels is excluded:

Sulphur: 1000ppm    Chlorine: 150ppm    Iron: 50ppm