

DIAMOND / SILVER LIGHTITE® PRODUCT DATA SHEET



DESCRIPTION

Lightite® Thermal Reflective Films

A coloured five layer coextruded high performance polyethylene film for use in the horticultural industry. Contains a special U.V stabiliser that ensures the lightfastness of the material occurs slower than conventional films. Coupled with a metalised layer of polyester, laminated to the UV film to increase reflectivity and ensure minimum loss of light. Easy Grow Lightite® films meet the requirements to be used within the horticultural industry.

PRODUCT SPECIFICATION

TYPICAL PROPERTY VALUES

PROPERTY	TYPICAL VALUE	UNITS	TOLERANCE
Density (Av of Formulation)	1.204	g/cm ³	+/- 0.015
Width	1200	mm	-0 +6 mm
Nominal Thickness	125	mu	+/- 8mu
Spot Thickness	+/- 8%	of average	+/- 10% of average
Yield	+/- 5%	of nominal	+/- 15% of nominal

PRODUCT INFORMATION

PHYSICAL / CHEMICAL

PROPERTY	TYPICAL VALUE	UNITS	TEST METHOD	TEST CONDITIONS
Conductivity of Aqueous extract	2	uS/cm	DIN 40634 or VDE0345	1 kHz
Water Absorption (compared to dry state)	0.5	%	DIN 53472 and ASTM D 570	Immersed in water for 4 days at 23°C

BARRIER

PROPERTY	TYPICAL VALUE	UNITS	TEST METHOD	TEST CONDITIONS
Air	60	cm ³ /m ² x d x bar	DIN 53380	23°C, 0% R.H.
Oxygen	110	cm ³ /m ² x d x bar	DIN 53380	23°C, 50% R.H.
Water Vapour	16	g/m ² x d	DIN 53122	23°C, 85% R.H.
Nitrogen	35	cm ³ /m ² x d x bar	DIN 53380	23°C, 0% R.H.
Carbon Dioxide	500	cm ³ /m ² x d x bar	DIN 53380	23°C, 0% R.H.

THERMAL RESISTANCE VALUES

PROPERTY	TYPICAL VALUE	UNITS	TEST METHOD	TEST CONDITIONS
Emissivity	4% (0.04)	%	BS EN ISO 6946**	10°C mean Temp
Reflectivity	96% (0.96)	%	BS EN ISO 6946**	10°C mean Temp
O.D. (Optical Density)	min 3.2			

* These QC tests are not routinely carried out during production unless otherwise agreed, but based on historical data

* These figures are supplied from natural side of film

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Manufacturing Control System complies with ISO9001 : 2000, Hygiene Control System accredited to BRC/IOP

All data stated is accurate to the best of our knowledge, and without liability.