

Technical datasheet

Lumilys WH100

Agrotextiles - Smart reflective groundcover



Technical Textiles

Functions

Reflects incoming PAR light

Achieves 80% reflection

Improves the microbiological health of your soil

Balances the water retention capacity of your orchard

Durable against weathering and UV

Withstands normal mechanical exposure

Product Specifications

PROPERTIES	TEST METHOD	VALUE		UNIT	TOLERANCE
		WARP	WEFT		
MATERIAL		PP	PP		
TISSUE COLOUR		white			
PATTERN		line in the middle and at both sides			
COLOUR LINING		red/green			
TISSUE WEIGHT	ISO 3801	100		g/m ²	± 5 %
WIDTH		260 - 300 - 330		cm	± 2 cm
LENGTH		100		m	± 2 %

Technical characteristics

PROPERTIES	TEST METHOD	VALUE		UNIT	TOLERANCE
		WARP	WEFT		
BREAK ELONGATION	ISO 13934-1	14	15	%	± 20 %
TENSILE STRENGTH	ISO 13934-1	850	700	N/5cm	± 20 %
PERFORATION RESISTANCE	EN ISO 13433	18		mm	MAX
UV-STABILIZATION	ISO 4892-3 cycle 3	≅ 900		kLy	
LIGHT REFLECTION		80		%	
SHRINKAGE	15' à 70 °C	1,0	1,0	%	MAX
WATERPERMEABILITY	ISO 11058	0,010		m/s	± 50 %
ABRASION RESISTANCE	ISO 12947-2	60000		cycles	
REMARKS	UV-Stabilization : Based on QUV testing min 8300 h (cycles of 5 h light exposure UV-A 340 nm 0,83 W/m ² at 50°C and 1 h water spray), which corresponds theoretically to a solar irradiation of 900 kLy. In a climate zone of 90 kLy/y (Western Europe) this corresponds to 10 years.				

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