



Woven Poly



AGRON COOL

Patent application number: No. 10-2018-0087595

Description

Agron COOL blocks infrared rays more than 30 percent during summer and reduces the temperature of the inside of greenhouse by more than 5°C. In winter, it keeps the heat inside the greenhouse by about 3°C which enables the crops and livestock to grow effectively at a low cost. It is lightweight, durable, and flexible enough to fit in any application. (* There may be differences depending on the weather conditions and location.)



Easy
Installation

Features

Cooling | Transparent materials allow visible and ultraviolet rays to penetrate and absorb and block infrared rays, making it beneficial for crop growth in summer. In winter, it cut offs the heat of infrared and radiation, providing a good heating effect

Woven Film | Reinforced woven structure provides superior tensile, tearing strength

Scattered Light | Light is transmitted through the transparent woven film and converts into scattered light providing superb lighting

Quality Improvement | Excellent light transmission helps the photosynthesis of crops and livestock



Durability

Size

Thickness: 0.18 mm, 0.25 mm / Width: 2050mm, 4100mm



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Data Sheet

Number	Item	Test Method	Direction	Agron COOL 200	Agron COOL 160
1	Weight	ASTM D 3776/D3776M-09a[2017] : g/m ²		194.9	151.0
2	Tensile Strength	ASTM D 5035-11(2015) C.R.E. Stripping method: N/50mm	MD	1544.2	1143.4
			CD	1505.1	1100.4
3	Elongation	ASTM D 5035-11(2015) C.R.E. Strip method: %	MD	25.8	28.1
			CD	26.1	25.3
4	Tear Strength	ASTM D 2261-13 [2017]e1, : N	MD	313.8	235.9
			CD	303.9	225.3
5	Bursting Strength	ASTM D 6797-15 : N		1716.5	957.5
6	Cold Resistance	ASTM D 2136-02 (2012):APPEARANCE		NO CRACK	NO CRACK
7	Shrinkage	CLEINT'S REQUEST METHOD : %	MD	- 1.0	- 1.7
			CD	- 1.0	- 2.0
8	Light Transmittance	ASTM D 1003-13 : %		72.9	74.6
9	5000 hrs of UV Exposure	QUV A 340nm 5,000 hours Interval : 500 hours		99.0	99.0

* 6 layer woven structure maximizes the cooling effects.

Application

- Fish farm (Shrimp, Fry, etc.)
- Fishing place, Garage, Warehouse
- Rice Seedling Greenhouse
- Leaf/ Fruit vegetable Greenhouse
- For Winch curtains
- Gate ball Court, Sports Grounds
- Mushroom greenhouse
- Places where cooling system is required

