



Scattered light / Diffuser sheet



TEKKAL MAT

Patent application number: No. 2017-0000177
 Trademark registration number: No. 2017-0008758

Description

The special fiber structure has the advantage of scattering/reflecting direct sunlight. It is a double-sided reflective film composed of both aluminum coated surface and a white pigment coated surface so that you can choose which to use by season.

Features

- Scattered light** | Diffuse the sunlight, spread and reflect light to help with uniform coloring
- White** | Suitable for early maturing varieties **Common** | Avoid pests and birds
- Aluminum coated** | Suitable for a variety of late ripening crops
- Crops** | Apple, persimmon, peach, plum, fig, jujube, strawberry, tomato



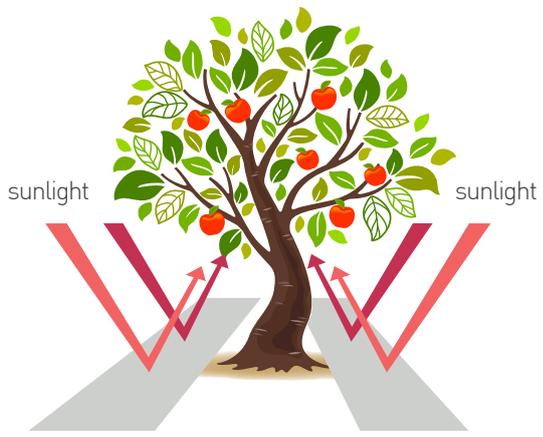
Light Diffusion



Burn Prevention



Color Improvement



scattering sunlight to crops evenly



Tekkal mat (Scattered light / light diffusion sheet) installation



TEKKAL MAT

Data Sheet

Number	Item	Test Method	Direction	Value
1	Weight	ASTM D 3776:2009, OPTION A : g/m ²		115
2	Tensile Strength	ASTM D 5035:2011, C.R.E. Strip Method: N/50mm	MD	488.4
			CD	423.9
3	Elongation	ASTM D 5035:2011, C.R.E. Strip Method: %	MD	18
			CD	17.3
4	Tear Strength	ASTM D 2261:2013, C.R.E. Blank: N	MD	124.1
			CD	124.7
5	Cold Resistance	ASTM D 6797:2015, C.R.E. Ball Busting Method: N		398
6	Light Transmittance	ASTM E 424-71.:2007, Method A : 6.5.2, SELECTED ORDINATES Method : %	White	76.2
			Aluminum	82.8
7	5000 hrs of UV Exposure	ASTM D5035 : 2011 C.R.E, Strip Method : Retention rate %	MD	94
			CD	94

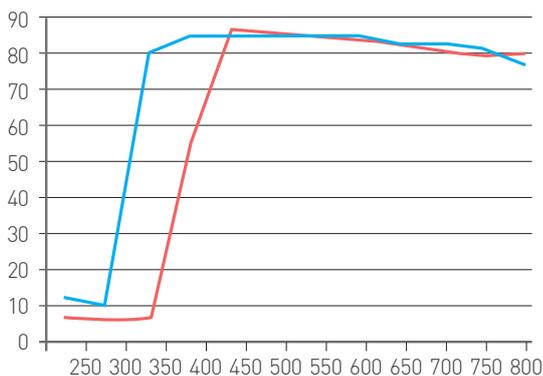
Specifications of TEKKAL mat

Width 1m x Length 100M
 Width 1.5m x Length 100M
 Width 1.8m x Length 100M
 Width 2m x Length 100M



Reflectance Graph

— Aluminum coated Side — White Side



* Caution *

- The aluminum used in this product may deform if exposed to water or moisture for a long time.
- Fire and high temperature may cause a deformation.
- Ends of materials can be curved at a high temperature.
- Please be careful when the sunlight is strong since the reflection varies depending on weather conditions and location.
- After using the product, remove the dirt (soil, leaves, pesticides and etc.) so it can be used repeatedly.
- There may be differences in the timing and degree of coloring depending on the varieties and fruits.