

# @griplast®

GROW, EVERYWHERE.



- thermal covering films -

# Serralux®



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Serralux® is a diffused light thermal film designed for the cover of any type of crop in geographical areas with high solar radiation. The total and diffuse brightness values are kept very high to allow plants to have all the necessary light and at the same time offer an effective screen to attenuate the dangerous excesses of direct light. The IR barrier, enables to retain heat inside the greenhouse during night hours, IR barrier is kept very high to reduce the risks associated with eventual drops of the temperatures during the winter season. Serralux® can be stabilized with Hals or Nickel-Quencher (SHR version). It can be treated with Antigoccia. It can be produced in the UV STOP version particularly appreciated on crops that require a total barrier to UV radiation.



## **Serralux®**

can be produced in three classic versions:

**SERRALUX®**

**B**

**SERRALUX® LONG LIFE**

**D**

**SERRALUX® LONG LIFE PLUS**

**E**

**Serralux®**

# Serralux®

Thickness  $\mu\text{m}$  200 - Width mt. various

|                                | PROPERTY                               | UNIT              | VALUE       | TEST METHOD      |
|--------------------------------|--|-------------------|-------------|------------------|
| DIMENSIONAL PROPERTIES         | Nominal thickness tolerance:           |                   |             |                  |
|                                | Average thickness                      | $\mu\text{m}$     | $\pm 5\%$   | ISO 4591         |
|                                | Point to point thickness               | $\mu\text{m}$     | $\pm 15\%$  | ISO 4593         |
|                                | Width tolerance                        | mm                | 0% +2%      | ISO 4592         |
| MECHANICAL PROPERTIES          | Tensile strenght at break MD + TD      | N/mm <sup>2</sup> | $\geq 23$   | EN ISO 527-3     |
|                                | Elongation at break MD + TD            | %                 | $\geq 600$  | EN ISO 527-3     |
|                                | Tear resistance (Elmendorf)            | N                 | $\geq 25$   | ISO 6383-2       |
|                                | Dart drop test - Zone flat             | gr                | $\geq 600$  | ISO 7765-1 A     |
|                                | Zone fold                              | gr                | $\geq 450$  | ISO 7765-1 A     |
| THERMAL AND OPTICAL PROPERTIES | Total visible light emission           | %                 | $\geq 87$   | EN 2155-5        |
|                                | Diffused light                         | %                 | $\geq 54$   | EN 2155-5        |
|                                | IR 7,5/12,5 micron (greenhouse effect) | %                 | $\geq 88$   | EN 13206         |
| OTHER PROPERTIES               | Elongation at break after exposition   | %                 | $\geq 50\%$ | ISO 4892-2       |
| DURATION                       | Class of film                          |                   | D           | EN 13206         |
|                                | Duration (hours)                       | hours             | $\geq 6800$ | ISO 4892-2       |
|                                | Expected life-time                     | months            | 36          | area 70-100 kLy  |
|                                |  | months            | 33          | area 100-130 kLy |
|                                |  | months            | 24          | area 130-160 kLy |



**Attention** The data are referred to the film tested before the use. The lifetime expected can be negatively affected by an uncorrect cladding operation and/or use of pesticides containing halogen -based compounds and/or heavy metals (as sulphur, chlorine, bromine, copper, zinc, iron, etc). In this respect we advise you to carefully read our instructions for a correct use of LDPE-EVA-LLDPE-POLIAMMIDE films.

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