**TABLE S1**. Optical properties of different components in the case greenhouse.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Absorptivity (%) | Reflectivity (%) | Transmissivity (%) | References |
| South roof | 2.9 | 7.7 | 89.4 | (Park et al., 2021) |
| Soil | 75 | 25 | - | (Abdel-Ghany and Kozai, 2006) |
| Inside air | - | - | 100 | (Abdel-Ghany and Kozai, 2006) |
| Walls | 65 | 35 | - | (Reagan and Acklam, 1979) |
| North roof | 55 | 45 | - | (Reagan and Acklam, 1979) |
| Reflective film | - | 98 | - | (McCord et al., 2009) |
| Tomato leaf | 89 | 8 | 3 | (de Visser et al., 2014) |

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