TOTAL
COMMITTED TO BETTER ENERGY

GREENHOUSE FILMS

Processability and mechanical properties

GREENHOUSE FILMS

Opportunities & challenges

Requirements for greenhouses are more and more demanding: they need to **last longer**, offer better environments to grow more food in a shorter time and **lower waste**.
Therefore it is important to be able to offer products helping you meet those demanding requirements by enabling **downgauging** and improving the **mechanical properties**.

What Total can offer

Thanks to the combination of our **Lumicene Supertough®** and our EVA, we provide to the market a global solution with a good downgauging potential. Our solution offers a film responding to the end-user expectations by using less products & reducing in the same time the footprint impact.
With their **excellent processability** and **mechanical properties**, our Lumicene Supertough® are the ideal partners to simplify your film structures and facilitate your material sourcing.

GREENHOUSE FILMS

Requirements…

Depending on the culture type, localisation, weather etc…

Mechanics	• Strength and elongation • Dart drop of flat or fold • Creep
Optics	• Haze • Light transmission
Thermicity	• IR absorption spectrum • Keep warmth • Protect from NIR
Ageing	• Long term UV-resistance • Long-term pesticides resistance • Resist for several seasons

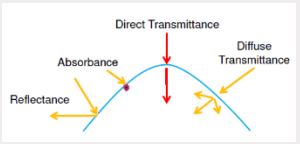
…Total's answer

Mechanics & Optics

Improvement of optics & mechanics with **Total Lumicene® & Lumicene Supertough®**.

Thermicity

Our **EVA copolymers** can help you achieve the right thermicity



Processability

Total Lumicene Supertough® gives a better bubble stability, that allows you to run trouble free on lines with a high output.