



Ultra-Durable UV Protection for Agricultural Films

High-performance UV light stabilizer designed to extend film service life under continuous chemical exposure, optimized for cost efficiency.

Greenhouse films are increasingly exposed to pesticides and sulfur-based treatments used to protect crops and improve yield. While essential for agriculture, these chemicals accelerate the degradation of plastic films and shorten their functional lifetime.



UV8885PE EU is a cost-effective UV light stabilizer masterbatch developed specifically for greenhouse films exposed to high levels of agrochemicals, delivering durable and long-lasting UV protection where standard stabilization systems are often not sufficient. The solution helps maintain mechanical performance and film integrity over time, supporting a service life of 3 years under demanding outdoor conditions.

Key Benefits

- ✓ **Durability in high agrochemical environments** - Suitable for greenhouse films exposed to pesticides and sulfur-based treatments, up to 2,500 ppm S.
- ✓ **Reliable UV stabilization for films with a 3-year lifespan** - Supports long-term mechanical performance throughout the intended lifespan.
- ✓ **Cost-effective solution** - Optimized balance between performance and cost compared to existing market options.
- ✓ **High transparency** - Maintains optical properties required for effective crop growth.
- ✓ **Proven performance** under real field conditions.

Typical Applications

Greenhouse films • High tunnels

Agricultural sheets and membranes

Sustainability through longer service life

Extending the lifetime of greenhouse films reduces the need for frequent replacement. As a result, UV8885PE EU supports:

- Improved cost efficiency for growers and film producers
- Lower plastic consumption over time
- Reduced waste generation

Performance Results

UV8885PE EU maintains high elongation retention throughout the intended service life, preserving film flexibility and resistance to mechanical failure.

Performance was validated on a 200-micron greenhouse film operating under high sulfur exposure and exceptionally high UV radiation conditions (190 kly/y), including continuous sulfur application via sulfur burners.

