

# AMPACET



MASTERBATCH SOLUTIONS FOR **PLASTICULTURE**



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Global population growth and rapid urbanization lead to a reduction of arable land surface available for growing plants needed to feed cattle and humanity.

Plastics are widely used in agriculture to protect crops, optimize yields and preserve food after harvest.





Plastics films are used for various applications & purposes:

- **Greenhouse & tunnels** used as protection films to protect plants from the negative effect of external atmospheric disturbances (e.g. wind, rain, hail, temperature...) and modify climatic conditions for accelerating plant maturity and optimize crop yield
- **Mulch films** used as replacement of organic mulch to eliminate weeds, modify soil temperature, reduce evaporation and preserve humidity in the soil for optimum plant growth
- **Silage films** (silage tarp, silo tubes or bags and stretch bale wrap) used to protect and provide good storing conditions for cattle food made out of anaerobic fermented high moisture fodder (e.g. fresh-cut grass, corn...) as well as for dry hay or grains, maintaining its high nutritional value and avoiding food spoilage







## Specialty additive masterbatch solutions to enhance shelf-life & performance of agriculture films

Functionality	Specialty Masterbatch	Value Proposition	Greenhouse Tunnels	Mulch	Tarp Tubes	Stretch Bale Wrap
UV Stabilizer UV Barrier Combos	<b>AGRISTAB 1250</b> (1001250-E)	Designed for intensive pesticide use (max. 3,000 ppm Sulfur / max. 200 ppm Chlorine) for a duration of max. 3 years <sup>(*)</sup>	X			
	<b>AGRISTAB 1278</b> (1001278-E)	Designed for highly intensive pesticides use (max. 5,000 ppm Sulfur / max. 250 ppm Chlorine) for a duration of minimum 3 years <sup>(*)</sup> . Outperforms conventional UV stabilizing solutions typically used with high pesticide usage.	X			
UV Stabilizer	<b>AGRISTAB 1249</b> (1001249-E)	Designed for intensive pesticide use (max. 3,000 ppm Sulfur / max. 200 ppm Chlorine) for a duration of max. 3 years <sup>(*)</sup>	X	X	X	X
	<b>AGRISTAB 1279</b> (1001279-E)	Designed for highly intensive pesticides use (max. 5,000 ppm Sulfur / max. 250 ppm Chlorine) for a duration of minimum 3 years <sup>(*)</sup> . Outperforms conventional UV stabilizing solutions typically used with high pesticide usage.	X	X	X	X
UV Barrier	<b>10057</b>	General purpose UV barrier solution with barrier effect till 340 nm wavelength.	X			
	<b>100645</b>	UV barrier solution with barrier effect till 380 nm wavelength, specially used as rose anti-blackening agent.	X			
	<b>101922</b>	Used for "Anti-Virus" films and as anti-blackening of petals of red roses. High extraction resistance allowing longer effect vs conventional UV barrier solutions.	X			
Antifog	<b>AGROCLEAR 752</b> (1000752-E)	High performance antifog solution for 1 to 2 seasons low tunnels, horticulture films, mulch film for asparagus as well as early harvest crop protection films.	X	X		
	<b>AGROCLEAR 651</b> (102651)	High performance Antifog for greenhouse & low tunnels with very long term effect duration, suitable for multi-seasons use.	X			
Heat Control	<b>THERMIC 337</b> (1000337-E)	Thermic effect to retain a maximum heat inside protection film during the night to ensure optimal plant growth.	X			
	<b>HEATSCREEN 34</b> (1000234-E)	Cooling effect for avoiding overheating of greenhouse inner atmosphere and dehydration of plants under extreme climatic conditions for an optimized plant growth.	X			
Light diffusor	<b>101314</b>	Improves light diffusion without significant impact on film transparency. Prevents harmful direct light in hot climate regions.	X			
Processing Aid	<b>PROFLOW 400</b> (1000400-E)	Optimized formulation for reduced interactions with UV light stabilizers (HALS) providing excellent behavior in terms of minimizing die build-up formation & shark skin suppression.	X	X	X	X

<sup>(\*)</sup> These values do not consist in any guarantee. Film producer will have to proceed with its own testing and check the performance of the protection film in regards to target exposure, including location, duration & conditions of usage.





## White, Black & Color masterbatches for agriculture films

Functionality	Specialty Masterbatch	Value Proposition	Greenhouse Tunnels	Mulch	Tarp Tubes	Stretch Bale Wrap
White	1100495-EA	Premium quality highly dispersed weatherable 70% White masterbatch.		X	X	X
	110790-A	UV stabilized weatherable 60% White masterbatch.			X	X
Black	19836-I	50% N700 Carbon Black masterbatches for thin film applications.		X		
	19673-I	50% N700 Carbon Black masterbatches with fillers for thin film applications.		X		
	19836-N	50% N700 Carbon Black masterbatch with fillers for thick film applications.			X	
	19832-N	40% N700 Carbon Black masterbatch with fillers for thick film applications.			X	
	193214	Thermostabilized 40% N300 Carbon Black masterbatch.		X		X
	191048-A 190826-HP	Premium quality highly dispersed 40% N200 Carbon Black masterbatch.		X		X
	190826-HT	Thermostabilized Premium quality highly dispersed 40% N200 Carbon Black masterbatch.		X		X
	190936	UV stabilized 40% N200 Carbon Black masterbatch.				X
	2900007-E	Black masterbatch on compostable carrier resin for coloring compostable end applications.		X		
Thermic Brown	180390-A	Brown masterbatch providing combined herbicide and thermic effects allow higher soil heating during the day and better heat retention during the night for optimised plant growth.		X		
Herbicide Green	170470-A	Green masterbatch providing an herbicide effect to mulch.		X		
Silver	120777	Silver masterbatch for use in monolayer or coextruded silver/black mulch.		X		
Green UV	171042 171437-A 170830 172105-B	UV stabilized dark, medium & pale Green masterbatches.				X
Other Colors	Pink Blue Orange Yellow	UV stabilized color masterbatches for various cancer campaigns (breast, prostate, leukemia, kids).				X



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