



# Enhance Film Performance with Our Sustainable Solutions





## COLORANTS & ADDITIVES FOR THE FLEXIBLE POLYOLEFIN FILM INDUSTRY

The flexible film industry is booming, driven by the growth of e-commerce and the increasing demand for convenience packaging. Sustainability is also a key driver, with a rising need for recyclable and bio-based films. While polyolefin polymers remain central to the film market, they present significant technical challenges in both production and end use, such as surface instability, static accumulation during high-speed unwinding, UV-induced breakage, poor opening, and issues with water condensation and microbial degradation in agricultural applications.

### HOW AVIENT CAN HELP

- Enhance processing performance
- Provide technical expertise and formulation support to film manufacturers and packaging converters
- Assist converters and brand owners in transitioning from hard-to-recycle multi-material packaging to more sustainable, mono-material solutions

To learn more about our custom formulations and services, connect with us at [avient.com](https://www.avient.com).





FILM APPLICATION	PRODUCT	KEY CHARACTERISTICS
Food Packaging	<b>Cesa™ Slip Additives</b> <b>Hiformer™ Liquid Additives</b> for Polyolefins – Slip	Reduce film surface friction
	<b>Cesa™ Anti-Block Additives</b> <b>Hiformer™ Liquid Additives</b> for Polyolefins – Anti-Block	Enhance film-to-film separation for easy bag opening
	<b>Cesa™ Anti-Block Slip LS</b>	Support fast-formed seal requirement
	<b>Cesa™ Nox Additives</b> <b>Cesa™ Nox A4R Additive</b> for Enhanced Recycling <b>Hiformer™ NOX™ A4R Liquid Antioxidant</b> for Polyolefins	Lower cross-link gelation and black specks for maximum PIR content loading
	<b>Cesa™ Anti-Fog Additives</b>	Prevent film fogging in both cold and hot conditions
	<b>Cesa™ Process Additives</b> <b>Hiformer™ Liquid Additives</b> for Polyolefins – Polymer Process Aid <b>Cesa™ Non-PFAS Process Aid</b> for Extrusion <b>Hiformer™ Non-PFAS Process Aid</b>	Improve film stability and surface quality, reduce gel speck or black dots, minimize die buildup, and lower melt pressure to extend screen pack life
	<b>Remafin™ Concentrates</b> for Polyolefins (White & Colors)	Provide excellent colorant dispersion for superior aesthetics and crisp, high-quality printing
Agricultural Films	<b>Cesa™ Light Additives</b>	Provide UV protection to extend film life
	<b>Cesa™ Nox Additives</b> <b>Cesa™ Nox A4R Additive</b> for Enhanced Recycling <b>Hiformer™ NOX™ A4R Liquid Antioxidant</b> for Polyolefins	Prevent degradation during thermal processing and UV exposure
	<b>Cesa™ WithStand™ Antimicrobial Additives</b>	Prevent film deterioration from bacteria, fungi, and mold
	<b>Cesa™ Anti-Fog Additives</b>	Eliminate condensation to maintain transparency and prevent water drip and plant damage
	<b>Cesa™ Stat Antistatic Additives</b>	Reduce surface resistivity to prevent static buildup and dust attraction
	<b>Cesa™ Process Additives</b> <b>Hiformer™ Liquid Additives</b> for Polyolefins – Polymer Processing Aids <b>Cesa™ Non-PFAS Process Aid</b> for Extrusion <b>Hiformer™ Non-PFAS Process Aid</b>	Improve film stability and surface quality, reduce gel speck or black dots, minimize die buildup, and lower melt pressure to extend screen pack life
	<b>Remafin™ Concentrates</b> for Polyolefins (White & Colors)	Provide excellent colorant dispersion for superior aesthetics and crisp high-quality printing

FILM APPLICATION	PRODUCT	KEY CHARACTERISTICS
Industrial Films	<b>Cesa™ Stat Antistatic Additives</b>	Reduce surface resistivity to prevent static buildup and dust attraction
	<b>Cesa™ Slip Additives</b> <b>Hiformer™ Liquid Additives</b> for Polyolefins – Slip	Reduce film surface friction for smooth handling
	<b>Cesa™ Anti-Block Additives</b> <b>Hiformer™ Liquid Additives</b> for Polyolefins – Anti-Block	Enhance film-to-film separation for easy bag opening
	<b>Cesa™ Cor Additives</b>	Protect metal from oxidation and corrosion volatile corrosion inhibitor (VCI)
	<b>Hiformer™ Liquid Additives</b> for Polyolefins – Tackifier	Increase film surface tackiness for excellent wrapping performance
	<b>Cesa™ Process Additives</b> <b>Hiformer™ Liquid Additives</b> for Polyolefins – Polymer Processing Aids <b>Cesa™ Non-PFAS Process Aid</b> for Extrusion <b>Hiformer™ Non-PFAS Process Aid</b>	Improve film stability and surface quality, reduce gel speck or black dots, minimize die buildup, and lower melt pressure to extend screen pack life
	<b>Cesa™ Nox Additives</b> <b>Cesa™ Nox A4R Additive</b> for Enhanced Recycling <b>Hiformer™ NOX™ A4R Liquid Antioxidant</b> for Polyolefins	Prevent degradation during thermal processing and UV exposure
Specialty Films	<b>Remafin™ Concentrates</b> for Polyolefins (White & Colors)	Provide excellent colorant dispersion for superior aesthetics and crisp, high-quality printing
	<b>Hydrocerol™ Chemical Foaming Agents</b>	Provide foamed-cell film technology
	<b>Cesa™ Flame Retardant Additives</b>	Provide flame-retardant formulation
	<b>Cesa™ Fragrance Technologies</b>	Create custom scents that enhance consumer appeal and brand experience

1.844.4AVIENT  
www.avient.com



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