

Polybatch solutions

Alternative to fluorine-containing processing aids





Alternatives to fluorine-containing processing aids

LYB understands plastic manufacturers, converters and brand owners are seeking alternatives to fluorine-containing compounds for their end-use applications. When it comes to masterbatch process aids, LYB can deliver alternative solutions without sacrificing key performance properties.

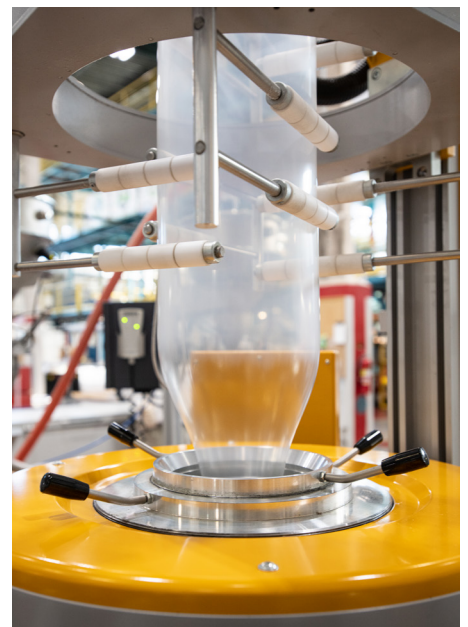
Within the LYB *Polybatch* portfolio, these alternative masterbatch process aids are formulated without fluorine-containing compounds and help cast and blown film producers manufacture with ease without affecting finished film characteristics. Additionally, these grades are available in a variety of carrier resins and are food contact compliant in the United States.

Processing issues addressed

- Die build-up
- Pressure reduction
- Melt fracture

Target properties maintained

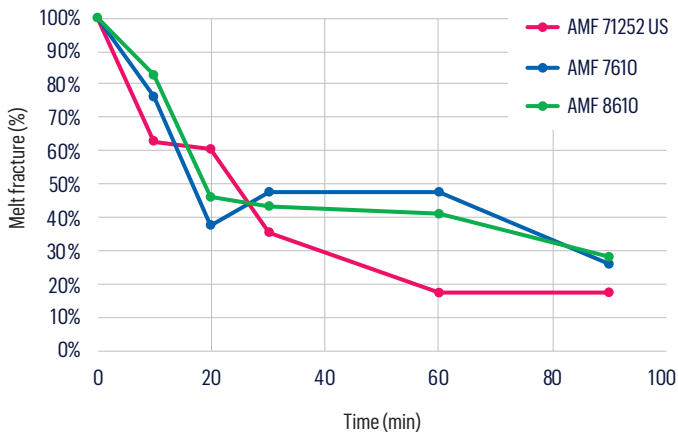
- Optical properties
- Sealing and laminating properties
- Dyne level retention
- Coefficient of friction



Our LYB AMF 7610 and AMF 8610 are formulated without fluoropolymer and siloxane processing aids engineered to effectively control both melt fracture and die build up, addressing a key limitation of many legacy and competitive solutions. Both grades offer broad FDA and global food contact compliance and are designed to preserve printing performance, coefficient of friction, and optical properties. AMF 7610 is optimized for standard polyethylene processing temperatures, while AMF 8610 supports higher temperature applications such as cast film converting and is also available in a polypropylene carrier for PP converters.

Melt fracture performance

Melt Fracture, 1000 ppm, 600 s-1



Die build up performance



Fluorine-alternative process aid masterbatches

Polybatch series	Product	Melt fracture	Die build up	Pressure reduction	Suitable for printing/laminating	Carrier	Additive loading	FDA compliant	EU food compliant
71	AMF 71252 US	Best	Good	Best	Yes	LLDPE	7.5%	Yes	Yes
73	AMF 7305	Good	Better	Best	Yes	LLDPE	5%	Yes	No
	P AMF 7305					HPP	5%		
	P AMF 7302 SC					RCP	2%		
74	AMF 7410	Best	Best	Good	No	LLDPE	10%	Yes	Yes
	AMF 7450 LD					LDPE	50%		
	P AMF 7410 SC					RCP	10%		
76	AMF 7610	Best	Best	N/A	Yes	LLDPE	10%	Yes	Yes
86	AMF 8610	Best	Best	N/A	Yes	LLDPE	10%	Yes	Yes
	P AMF 8610 SC					RCP			

About us

We are LyondellBasell (LYB) – a leader in the global chemical industry creating solutions for everyday sustainable living. Through advanced technology and focused investments, we are enabling a circular and low carbon economy. Across all we do, we aim to unlock value for our customers, investors and society. As one of the world's largest producers of polymers and a leader in polyolefin technologies, we develop, manufacture and market high-quality and innovative products for applications ranging from sustainable transportation and food safety to clean water and quality healthcare. For more information, please visit www.lyb.com or follow [@LyondellBasell](https://www.linkedin.com/company/lyondellbasell) on LinkedIn.

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You can rely on the technical expertise of LYB to help determine the right material of choice for your application and converting process needs. Reach out to your LYB representative or email USCAN.APS@lyondellbasell.com for additional information.

