



COLLOIDS

THE MAKERS OF MASTERBATCH

**ADDITIVE
MASTERBATCH**



ADDITIVE MASTERBATCH

Colloids supply a comprehensive range of Additive Masterbatch products that are used extensively throughout the thermoplastics industry. We have a selection of standard additive masterbatches available from stock.

The standard range includes but is not limited to:

ANTIBLOCK prevents films sticking together during and after processing

ANTIFOG maintains clarity of food packaging and agricultural films

ANTIMICROBIAL suppresses microbial growth on polymer surfaces

ANTIOXIDANTS inhibits polymer oxidation (colour/polymer degradation, gels and black specks)

ANTISLIP increases coefficient of friction to prevent slip of stacked PE bags

ANTISTATIC prevents dust pick-up and build up of static charge

BLOWING AGENTS lowers density reducing part weight leading to lower costs

DEGRADABLE causes standard polyolefins to degrade

DE-LUSTRE gloss reduction and value adding polymer extender

DENESTING prevents stacked mouldings sticking together during storage

FLAME RETARDANTS offers varying degrees of fire resistance

MOULD RELEASE prevents parts sticking in the mould

NUCLEATING AGENT improves cycle time and polymer crystallinity, foam nucleator

PAPER LIKE creates paper feel polymer film

PROCESS AIDS improves processing by reducing melt fracture leading to increased output

SLIP AGENTS reduces coefficient of friction – often used in conjunction with antiblocks

UV STABILISER/ABSORBERS prolongs life of part exposed to UV/packaging contents

We also provide additive masterbatches based on other polymer systems such as ABS, ASA, EVA, PA (Nylon), PBT, PET, PE, PP, PS, SAN and universal carriers.

For bespoke applications where specific functionality is required we can work with customers to develop appropriate solutions.



Contents

As part of the Tosaf group, Colloids sources the majority of additive masterbatches from the Tosaf range of products.

This document contains information about a selection of products which are regarded as the most popular Additive Masterbatch types. Simply click on the title of the Masterbatch you would like more information on.

For more information please contact the Colloids Sales Team on +44 (0) 151 546 9222.

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PLEASE NOTE: The product information contained within this pdf is based on our general experience and does not constitute a specification. Since many factors affect the use of our products, no warranty is given or implied with respect to this information or patent infringement. We do not accept liability for any loss or damage arising from the use of this information.

All sales are subject to our standard terms and conditions of sale.

Additive products

Symbol Reference Guide

✓ = Suitable, * = Partial suitability, ✗ = Not suitable

| GRADE | POLYMER BASE | DESCRIPTION | POLYMER COMPATIBILITY For other polymers please contact Colloids sales office | | | | | | RECOMMENDED USE | | | | | COMMENTS |
|---------------------|--------------|----------------------|-------------------------------------------------------------------------------------|----|----|-----|----|-----|-----------------|-----------------------------|--------------------|---------------|-------------|---------------------------------------------------------------------------------------|
| | | | PE | PP | PS | ABS | PA | PET | EXTRUSION FILM | EXTRUSION – PROFILE / SHEET | INJECTION MOULDING | BLOW MOULDING | COMPOUNDING | |
| AB 2097 PE | PE | ANTIBLOCK | ✓ | ✓ | * | ✗ | * | * | ✓ | ✓ | ✓ | ✓ | ✓ | High clarity silica based antiblock and IR filter |
| AB 4139 PE | PE | ANTIBLOCK | ✓ | ✓ | * | ✗ | * | * | ✓ | ✓ | ✓ | ✓ | ✓ | Standard silica based antiblock |
| AF 2332 PE | PE | ANTIFOG | ✓ | * | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ | Slow migrating antifog |
| AP 0170 LD | PE | PROCESS AID | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | Prevents die build up and melt fracture |
| AS 0104 PE | PE | ANTISPLIT / EXTENDER | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | Highly loaded calcium carbonate masterbatch |
| CL 4175 PE | PE | PURGING AGENT | NA | NA | NA | NA | NA | NA | ✓ | ✓ | ✓ | ✓ | ✓ | Efficient purging agent |
| FA 0701 PE | PE | BLOWING AGENT | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✗ | ✗ | Highly loaded endothermic masterbatch |
| FA 0979 PP | PP | BLOWING AGENT | ✗ | ✓ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ | For use in film, raffia and pipe coating |
| FA 5467 EVA | EVA | BLOWING AGENT | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ | ✗ | ✗ | High temperature neutral non-plating universal blowing agent |
| FR 0667 LL | PE | FLAME RETARDANT | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | * | ✓ | ✓ | ✓ | ✓ | Allows compliance with UL 94 V2 (1.6mm) in CoPP. PBDPO free |
| FR 0930 PE | PE | FLAME RETARDANT | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✗ | ✓ | * | Chlorinated flame retardant, suitable for foamed applications |
| FR 1453 PE | PE | FLAME RETARDANT | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | Allows compliance with DIN 4102 B1 when used in XLPE foam and French M1. PBDPO free |
| SB 1423 PE | PE | SLIP/ANTIBLOCK | ✓ | ✓ | ✗ | ✗ | * | * | ✓ | ✓ | ✓ | ✓ | ✓ | Slow acting slip/antiblock properties |
| SB 6616 PE | PE | SLIP/ANTIBLOCK | ✓ | ✓ | ✗ | ✗ | * | * | ✓ | ✓ | ✓ | ✓ | ✓ | Slow acting slip/antiblock properties (higher loading) |
| SL 6948 PE | PE | SLIP | ✓ | ✓ | ✗ | ✗ | * | * | ✓ | ✓ | ✓ | ✓ | ✓ | Fast acting slip agent |
| ST 0860 PE | PE | ANTISTATIC | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | Amine free antistatic agent |
| ST 1028 PS | PS | ANTISTATIC | ✗ | ✗ | ✓ | ✓ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | Highly concentrated for styrenic polymers |
| ST 1661 PE | PE | ANTISTATIC | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | Amine based antistatic agent |
| UV 2375 PE | PE | UV STABILISER | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | Contains polymeric HALS and antioxidant. For long term outdoor use |
| UV 3598 PE | PE | UV STABILISER | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | Higher strength polymeric HALS . For long term outdoor use |
| UV 4284 PE | PE | UV STABILISER | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | Mixture of HALS and UV absorber – broad spectrum stabiliser |
| UV 8534 HP | PP | UV STABILISER | ✗ | ✓ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | High performance HALS for long term outdoor stability including textile applications |
| PE 48/10/96 | PE | DESICCANT | ✓ | ✓ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | Highly loaded for moisture control |
| M PE ADDITIVE 13533 | PE | EXTENDER | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ | ✓ | Highly loaded small particle size calcium carbonate – for use at high addition levels |

For further technical information or samples of any of our products please contact the Colloids sales office.