



COLLOIDS

THE MAKERS OF MASTERBATCH



BLACK MASTERBATCH



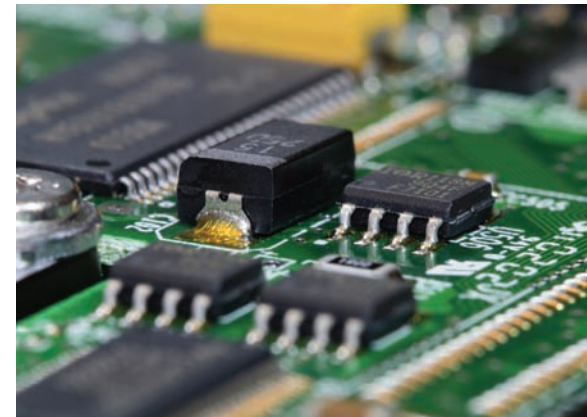
BLACK MASTERBATCH

Colloids manufacture a comprehensive range of Black Masterbatch products that are used extensively throughout the plastics industry. Our product ranges are particularly suitable where special attributes are required. UV stability, resistance to high temperatures and friction reduction qualities are just some of the properties demanded in our customers' end products. When required we can provide products to meet the relevant international food contact, toy and waste packaging regulations.

Our product range includes:

- **COLLOIDS Speciality Black Masterbatch** based on a wide range of polymers for use in highly demanding product applications
- **COLLOIDS Functional Black Masterbatch** based on polyolefins providing highly cost effective solutions for commodity applications
- **PACE®** engineering polymer specific masterbatches designed especially for the advanced thermoplastics industry (PA, PET, PBT, PC etc)
- **E-TEC®** conductive compounds (see separate **E-TEC®** pdf)

We are accredited with the ISO/TS16949:2002 automotive quality standard and through our Technical, Speciality and Functional Black Masterbatch, Colloids offer one of the most comprehensive ranges available from a single source. Colloids can also develop and produce customer specific formulations in conjunction with our Technical department.



Contents

This document contains information about a selection of products which are regarded as the most popular Black Masterbatch types.

Simply click on the title of the Masterbatch you would like more information on.

Other grades are available on request and technical data sheets are available for all our products. For more information please contact the Colloids Sales Team on +44 (0) 151 546 9222.

Black Products

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Table Reference Information

*******Food contact:** 'Tick' means that the Masterbatch is generally accepted for food packaging application in most countries. For specific details please contact the Colloids Sales Office.

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.

Black products

Symbol Reference Guide

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

Speciality Film Masterbatches

The carbon black types used in this range of masterbatches provides outstanding UV stability and opacity. Applications may include silage stretch film and outdoor products such as irrigation pipes that require long-term outdoor durability. The excellent carbon black dispersion in these products enables their use in critical film extrusion down to 15 microns.

GRADE	POLYMER BASE	POLYMER COMPATIBILITY							CARBON BLACK CONTENT	CARBON BLACK TYPE	FOOD CONTACT APPROVED *****	INCLUDES ANTIBLOCK ?	RECOMMENDED USE			
		For other polymers please contact Colloids sales office											FILM EXTRUSION	OTHER EXTRUSION	INJECTION/BLOW MOULDING	COMPOUNDING
		PE	EVA	PP	PS, ABS	PA (Nylon)	PET	PVC								
PE 48/92F	PE	✓	*	✓	*	*	*	*	40%	Small particle furnace	✓	X	✓	✓	✓	✓
PE 48/101	PE	✓	*	✓	*	*	*	*	40%	High strength general purpose	✓	X	✓	✓	✓	✓

Speciality Universal Masterbatches

These masterbatches give highly effective colouration in a wide variety of polymer types. Using the same masterbatch to colour a wide range of polymer bases can reduce masterbatch inventories and decrease costs.

GRADE	POLYMER BASE	POLYMER COMPATIBILITY							CARBON BLACK CONTENT	CARBON BLACK TYPE	FOOD CONTACT APPROVED *****	INCLUDES ANTIBLOCK ?	RECOMMENDED USE			
		For other polymers please contact Colloids sales office											FILM EXTRUSION	OTHER EXTRUSION	INJECTION/BLOW MOULDING	COMPOUNDING
		PE	EVA	PP	PS, ABS	PA (Nylon)	PET	PVC								
UN 53/20	Universal	✓	✓	✓	✓	✓	✓	✓	50%	High jet furnace	✓	X	✓	✓	✓	✓
UN 53/16	Universal	✓	✓	✓	✓	✓	✓	✓	45%	High strength general purpose	X	X	✓	✓	✓	✓
M UN BLACK 12753	Universal	✓	✓	✓	✓	✓	✓	✓	50%	Special food contact compliant, high strength	✓	X	✓	✓	✓	✓
UN 53/17	Universal	✓	✓	✓	✓	✓	✓	✓	35%	High strength general purpose	X	✓	✓	✓	✓	✓
M UN BLACK 12754	Universal	✓	✓	✓	✓	✓	✓	✓	35%	Special food contact compliant, high strength	✓	✓	✓	✓	✓	✓

Speciality Polymer Specific and other Masterbatches

GRADE	POLYMER BASE	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office							CARBON BLACK CONTENT	CARBON BLACK TYPE	FOOD CONTACT APPROVED *****	INCLUDES ANTIBLOCK ?	RECOMMENDED USE			
		PE	EVA	PP	PS, ABS, PC/ABS	PA (Nylon)	PET	PVC					FILM EXTRUSION	OTHER EXTRUSION	INJECTION/BLOW MOULDING	COMPOUNDING
PP 50/10	PP	X	X	✓	X	X	X	X	40%	Small particle furnace	✓	X	X	✓	✓	✓
PS 47/32	PS	X	X	X	✓	X	X	X	40%	High strength general purpose	X	X	X	✓	✓	✓
M PS BLACK 12752E	PS	X	X	X	✓	X	X	X	40%	Special food contact compliant, high strength	✓	X	X	✓	✓	✓
M SAN BLACK 10767	SAN	X	X	X	✓	X	X	X	30%	High jet furnace	✓	X	X	✓	✓	✓
PACE® PT 4778	PET	X	X	X	X	X	✓	X	30%	Small particle furnace	✓	X	X	✓	✓	✓
EVA 55/10	EVA	✓	✓	X	*	*	*	*	50%	Standard general purpose	X	X	✓	✓	✓	✓
EL 4200	EVA	✓	✓	X	*	*	*	*	40%	Small particle furnace	✓	X	✓	✓	✓	✓

Functional Black Masterbatches

GRADE	POLYMER BASE	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office							CARBON BLACK CONTENT	CARBON BLACK TYPE	FOOD CONTACT APPROVED *****	INCLUDES ANTIBLOCK ?	RECOMMENDED USE			
		PE	EVA	PP	PS, ABS	PA (Nylon)	PET	PVC					FILM EXTRUSION	OTHER EXTRUSION	INJECTION/BLOW MOULDING	COMPOUNDING
PE 48/70F	LDPE	✓	*	✓	*	*	*	*	Not disclosed	High strength general purpose	X	✓	✓	✓	✓	✓
M PE BLACK 12751	LDPE	✓	*	✓	*	*	*	*	Not disclosed	Special food contact compliant, high strength	✓	✓	✓	✓	✓	✓
PE 48/72F	LDPE	✓	*	✓	*	*	*	*	50%	Standard general purpose	X	X	✓	✓	✓	✓
M PE BLACK 13553	LDPE	✓	*	✓	*	*	*	*	40%	Special food contact compliant, high strength	✓	X	✓	✓	✓	✓

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