



COLLOIDS

THE MAKERS OF MASTERBATCH

**STANDARD COLOUR
MASTERBATCH**

COLOUR MASTERBATCH

Colloids manufacture a comprehensive range of Colour Masterbatch products that are used extensively throughout the thermoplastics industry. We have a wide selection of standard colours available from stock, including a range of colours suitable for outdoor applications with excellent weathering properties. The range includes high opacity colours in addition to tints as well as specialities such as metallic, pearlescent, thermochromic and glow-in-the-dark effects. When required we can provide products to meet the relevant food contact, toy and waste packaging regulations.

For non standard applications we offer a rapid colour matching service creating masterbatches specific to our customers needs. Bespoke colours can be engineered to encompass a whole range of effects and finishes for some of today's most demanding markets.

We can also develop and produce coloured products incorporating differing functional properties such as antistatic, UV stability, mould release, antibacterial etc.

Our colour masterbatches are used successfully in the following processes:

- Film and sheet extrusion
- Injection/blow moulding
- Pipe/profile extrusion
- Compounding



Contents

This document contains information about a selection of products which are widely regarded as the most popular Colour 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`.

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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.

Table Reference Information

*Colour indication only:

If an accurate match is required customer should always trial material in their own polymer base – samples available on request. Evaluation on colour to RAL and Pantone® reference is based on Masterbatch let down in LDPE at 2%.

****Heat Stability:** Maximum recommended processing temperature.

*** **Light fastness of pigments:** Scale 1-8 assessed using "Blue Wool Scale", 8 denotes highest performance i.e. best resistance to fading.

**** **Weather fastness of pigments:** 1-5 assessed using "International Gray Scale" 5 denotes highest performance i.e. lowest fading outdoors. Ratings 3 and below are not recommended for long-term outdoor use. Light and weather fastness relate to pigment performance only and rely on the appropriate polymer stabilisation system to be present. All declarations relating to heat stability, light fastness and weather fastness are based on a Masterbatch addition rate of 5% in LDPE .

*******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

*******EC 94/62:** 'Tick' means that the Masterbatch conforms to the new EC Packaging Directive which controls heavy metal content.



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Standard Colour Film Range

The standard Colloids Colour Film Range

contains a wide selection of colours which are regarded as the most popular standard colours in the film industry. All the masterbatches detailed below are based on a polyethylene carrier system and are typically used at 5 – 10% let down depending on film gauge and required opacity. For a film colour swatch book please contact the Colloids sales team.

Symbol Reference Guide

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

Yellow Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY			HEAT STABILITY **	LIGHT FASTNESS ***	WEATHER FASTNESS ****	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				For other polymers please contact Colloids sales office								
				LLDPE	LDPE	HDPE						
YELLOW	PE 48/2/2057F	394C	1016	✓	✓	*	240°C	6/7	1	✓	✓	Greenest shade through to reddest shade standard heavy metal free yellows
	PE 48/2/2450F	3945C	1016	✓	✓	*	240°C	6/7	1	✓	✓	
	PE 48/2/2905F	3935C	None	✓	✓	✓	240°C	7	3/4	✓	✓	
	PE 48/2/2904F	106C	1018	✓	✓	✓	240°C	7	3/4	✓	✓	
	PE 48/2/2028F	1115C	None	✓	✓	*	230°C	6	1	✓	✓	
YELLOW	PE 48/2/2449F	107C	None	✓	✓	*	240°C	7	4	X	X	Greenest shade through to reddest shade lead based yellows
	PE 48/2/2787F	107C	None	✓	✓	*	240°C	7	4	X	X	
	PE 48/2/2600F	115C	1018	✓	✓	*	240°C	7	4	X	X	
	PE 48/2/2200F	115C	1018	✓	✓	*	240°C	7	4	X	X	
	PE 48/2/2410F	1235C	1003	✓	✓	*	240°C	7	4	X	X	

Orange Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY			HEAT STABILITY **	LIGHT FASTNESS ***	WEATHER FASTNESS ****	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				For other polymers please contact Colloids sales office								
				LLDPE	LDPE	HDPE						
ORANGE	PE 48/3/1902F	150C	None	✓	✓	✓	240°C	7	3/4	✓	✓	Yellowest shade through to reddest shade heavy metal free oranges
	PE 48/3/1900F	1585C	None	✓	✓	*	230°C	5	1	✓	✓	
	PE 48/3/1046F	1645C	2009	✓	✓	✓	240°C	5	1	✓	✓	
ORANGE	PE 48/3/1310F	715C	None	✓	✓	*	240°C	7	4	X	X	Yellowest shade through to reddest shade lead based oranges
	PE 48/3/1703F	1645C	None	✓	✓	*	240°C	7	4	X	X	
	PE 48/3/1096F	1655C	2004	✓	✓	*	240°C	7/8	4	X	X	

Red Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office			HEAT STABILITY **	LIGHT FASTNESS ***	WEATHER FASTNESS ****	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE						
RED	PE 48/4/5909F	485C	None	✓	✓	✓	260°C	7	3/4	✓	✓	Yellowest shade through to bluest shade heavy metal free reds
	PE 48/4/5557F	179C	None	✓	✓	✓	240°C	5/6	1	✓	✓	
	PE 48/4/5020F	1788c	None	✓	✓	✓	240°C	4	1	✓	✓	
	PE 48/4/5330F	1795C	None	✓	✓	✓	250°C	6	2	✓	✓	
	PE 48/4/5505F	1797C	None	✓	✓	*	240°C	6	2	✓	✓	
	PE 48/4/5500F	200C	3027	✓	✓	✓	240°C	6	2	✓	✓	
RED	PE 48/4/5670F	1955C	None	✓	✓	✓	240°C	6	2	✓	✓	Yellowest shade through to bluest shade lead based reds
	PE 48/4/5170F	179C	None	✓	✓	*	240°C	6	2	X	X	
	PE 48/4/5517F	186C	None	✓	✓	*	240°C	6	2	X	X	

Pink Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office			HEAT STABILITY **	LIGHT FASTNESS ***	WEATHER FASTNESS ****	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE						
PINK	PE 48/4/5246F	1905C	None	✓	✓	✓	270°C	7	3/4	✓	✓	Bluest shade through to yellowest shade heavy metal free pinks
	PE 48/4/5080F	176C	None	✓	✓	✓	290°C	7	3	✓	✓	

Violet Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office			HEAT STABILITY **	LIGHT FASTNESS ***	WEATHER FASTNESS ****	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE						
VIOLET	PE 48/5/4022F	2587C	None	✓	✓	✓	240°C	6	2	✓	✓	

Blue Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office			HEAT STABILITY **	LIGHT FASTNESS ***	WEATHER FASTNESS ****	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE						
BLUE TINT (TRANSPARENT)	PE 48/5/4020F	None	None	✓	✓	✓	290°C	8	5	✓	✓	Greenest shade through to reddest shade heavy metal free blue tints
	PE 48/5/4500F	None	None	✓	✓	✓	300°C	8	5	✓	✓	
LIGHT BLUE	PE 48/5/4535F	2995C	None	✓	✓	✓	290°C	8	5	✓	✓	Greenest shade through to reddest shade heavy metal free light blues
	PE 48/5/4012F	298C	None	✓	✓	✓	280°C	8	5	✓	✓	
	PE 48/5/4300F	2915C	None	✓	✓	✓	280°C	8	5	✓	✓	
MID BLUE	PE 48/5/4025F	300C	None	✓	✓	✓	290°C	8	5	✓	✓	Greenest shade through to reddest shade heavy metal free mid blues
	PE 48/5/4021F	2935C	None	✓	✓	✓	290°C	8	5	✓	✓	
DARK BLUE	PE 48/5/4656F	295C	5013	✓	✓	✓	240°C	7	4	✓	✓	

Turquoise Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office			HEAT STABILITY **	LIGHT FASTNESS ***	WEATHER FASTNESS ****	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE						
TURQUOISE	PE 48/5/4358F	None	None	✓	✓	✓	280°C	8	5	✓	✓	

Green Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office			HEAT STABILITY **	LIGHT FASTNESS ***	WEATHER FASTNESS ****	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE						
GREEN TINT (TRANSPARENT)	PE 48/6/3015F	None	None	✓	✓	✓	300°C	8	5	✓	✓	
LIGHT GREEN	PE 48/6/3000F	3245C	None	✓	✓	✓	300°C	8	5	✓	✓	
MID GREEN	PE 48/6/3011F	7482C	None	✓	✓	*	240°C	6	1	✓	✓	Bluest shade through to yellowest shade heavy metal free mid greens
	PE 48/6/3450F	354C	None	✓	✓	*	240°C	6	1	✓	✓	
	PE 48/6/3116F	355C	None	✓	✓	✓	260°C	7	3/4	✓	✓	
	PE 48/6/3012F	None	None	✓	✓	*	240°C	6	1	✓	✓	
	PE 48/6/3800F	362C	None	✓	✓	*	230°C	6	1	✓	✓	
DARK GREEN	PE 48/6/3641F	3308C	None	✓	✓	*	240°C	6	1	✓	✓	Bluest shade through to yellowest shade heavy metal free dark greens
	PE 48/6/3510F	356C	None	✓	✓	*	230°C	6	1	✓	✓	
	PE 48/6/3600F	555C	None	✓	✓	*	220°C	8	4/5	✓	✓	
	PE 48/6/3888F	350C	None	✓	✓	✓	300°C	8	4/5	✓	✓	
MID GREEN	PE 48/6/3251F	355C	None	✓	✓	*	240°C	7	4	X	X	Bluest shade through to yellowest shade lead based mid greens
	PE 48/6/3420F	361C	None	✓	✓	*	240°C	7	4	X	X	
DARK GREEN	PE 48/6/3315F	356C	None	✓	✓	*	240°C	7	4	X	X	Bluest shade through to yellowest shade lead based dark greens
	PE 48/6/3373F	553C	6020	✓	✓	*	240°C	7/8	4/5	X	X	

Silver/Gold Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office			HEAT STABILITY **	LIGHT FASTNESS ***	WEATHER FASTNESS ****	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE						
SILVER	PE 48/7/7030F	877C	9022	✓	✓	✓	300°C	8	5	✓	✓	
GOLD	PE 48/7/7171F	872C	None	✓	✓	X	200°C	7	4	✓	✓	

Beige/Ivory Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office			HEAT STABILITY **	LIGHT FASTNESS ***	WEATHER FASTNESS ****	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE						
BEIGE	PE 48/2/2097F	7506C	None	✓	✓	✓	300°C	8	4/5	✓	✓	Greenest shade through to reddest shade heavy metal free beiges
	PE 48/2/1266F	4655C	None	✓	✓	✓	250°C	7/8	4	✓	✓	
IVORY	PE 48/2/9600F	None	9001	✓	✓	✓	300°C	7/8	4	✓	✓	Greenest shade through to reddest shade heavy metal free ivories
	PE 48/2/9035F	7401C	None	✓	✓	✓	300°C	8	4/5	✓	✓	

Grey Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office			HEAT STABILITY **	LIGHT FASTNESS ***	WEATHER FASTNESS ****	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE						
GREY	PE 48/7/8368F	431C	7024	✓	✓	✓	300°C	8	5	✓	✓	Darkest shade through to lightest shade heavy metal free greys
	PE 48/7/8035F	C. GRAY 8C	None	✓	✓	✓	300°C	8	5	✓	✓	
	PE 48/7/8899F	C. GRAY 6C	7045	✓	✓	✓	300°C	8	5	✓	✓	
	PE 48/7/8760F	428C	7040	✓	✓	✓	300°C	8	5	✓	✓	

Terracotta/Brown Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office			HEAT STABILITY **	LIGHT FASTNESS ***	WEATHER FASTNESS ****	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE						
TERRACOTTA	PE 48/8/1340F	1675C	None	✓	✓	✓	300°C	8	5	✓	✓	
MID BROWN	PE 48/8/1281F	None	8012	✓	✓	✓	300°C	8	5	✓	✓	
DARK BROWN	PE 48/8/1550F	4975C	None	✓	✓	✓	300°C	8	5	✓	✓	Darkest shade through to lightest shade heavy metal free browns
	PE 48/8/1028F	476C	None	✓	✓	✓	300°C	8	5	✓	✓	

All Colours

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office			HEAT STABILITY **	LIGHT FASTNESS ***	WEATHER FASTNESS ****	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE						
YELLOW	PE 48/2/2057F	394C	1016	✓	✓	*	240°C	6/7	1	✓	✓	Greenest shade through to reddest shade standard heavy metal free yellows
	PE 48/2/2450F	3945C	1016	✓	✓	*	240°C	6/7	1	✓	✓	
	PE 48/2/2905F	3935C	None	✓	✓	✓	240°C	7	3/4	✓	✓	
	PE 48/2/2904F	106C	1018	✓	✓	✓	240°C	7	3/4	✓	✓	
	PE 48/2/2028F	1115C	None	✓	✓	*	230°C	6	1	✓	✓	
YELLOW	PE 48/2/2449F	107C	None	✓	✓	*	240°C	7	4	X	X	Greenest shade through to reddest shade lead based yellows
	PE 48/2/2787F	107C	None	✓	✓	*	240°C	7	4	X	X	
	PE 48/2/2600F	115C	1018	✓	✓	*	240°C	7	4	X	X	
	PE 48/2/2200F	115C	1018	✓	✓	*	240°C	7	4	X	X	
	PE 48/2/2410F	1235C	1003	✓	✓	*	240°C	7	4	X	X	
ORANGE	PE 48/3/1902F	150C	None	✓	✓	✓	240°C	7	3/4	✓	✓	Yellowest shade through to reddest shade heavy metal free oranges
	PE 48/3/1900F	1585C	None	✓	✓	*	230°C	5	1	✓	✓	
	PE 48/3/1046F	1645C	2009	✓	✓	✓	240°C	5	1	✓	✓	
ORANGE	PE 48/3/1310F	715C	None	✓	✓	*	240°C	7	4	X	X	Yellowest shade through to reddest shade lead based oranges
	PE 48/3/1703F	1645C	None	✓	✓	*	240°C	7	4	X	X	
	PE 48/3/1096F	1655C	2004	✓	✓	*	240°C	7/8	4	X	X	
RED	PE 48/4/5909F	485C	None	✓	✓	✓	260°C	7	3/4	✓	✓	Yellowest shade through to bluest shade heavy metal free reds
	PE 48/4/5557F	179C	None	✓	✓	✓	240°C	5/6	1	✓	✓	
	PE 48/4/5020F	1788c	None	✓	✓	✓	240°C	4	1	✓	✓	
	PE 48/4/5330F	1795C	None	✓	✓	✓	250°C	6	2	✓	✓	
	PE 48/4/5505F	1797C	None	✓	✓	*	240°C	6	2	✓	✓	
	PE 48/4/5500F	200C	3027	✓	✓	✓	240°C	6	2	✓	✓	
	PE 48/4/5670F	1955C	None	✓	✓	✓	240°C	6	2	✓	✓	
RED	PE 48/4/5170F	179C	None	✓	✓	*	240°C	6	2	X	X	Yellowest shade through to bluest shade lead based reds
	PE 48/4/5517F	186C	None	✓	✓	*	240°C	6	2	X	X	
PINK	PE 48/4/5246F	1905C	None	✓	✓	✓	270°C	7	3/4	✓	✓	Bluest shade through to yellowest shade heavy metal free pinks
	PE 48/4/5080F	176C	None	✓	✓	✓	290°C	7	3	✓	✓	
VIOLET	PE 48/5/4022F	2587C	None	✓	✓	✓	240°C	6	2	✓	✓	
BLUE TINT (TRANSPARENT)	PE 48/5/4020F	None	None	✓	✓	✓	290°C	8	5	✓	✓	Greenest shade through to reddest shade heavy metal free blue tints
	PE 48/5/4500F	None	None	✓	✓	✓	300°C	8	5	✓	✓	
LIGHT BLUE	PE 48/5/4535F	2995C	None	✓	✓	✓	290°C	8	5	✓	✓	Greenest shade through to reddest shade heavy metal free light blues
	PE 48/5/4012F	298C	None	✓	✓	✓	280°C	8	5	✓	✓	
	PE 48/5/4300F	2915C	None	✓	✓	✓	280°C	8	5	✓	✓	

MID BLUE	PE 48/5/4025F	300C	None	✓	✓	✓	290°C	8	5	✓	✓	Greenest shade through to reddest shade heavy metal free mid blues
	PE 48/5/4021F	2935C	None	✓	✓	✓	290°C	8	5	✓	✓	
DARK BLUE	PE 48/5/4656F	295C	5013	✓	✓	✓	240°C	7	4	✓	✓	
TURQUOISE	PE 48/5/4358F	None	None	✓	✓	✓	280°C	8	5	✓	✓	
GREEN TINT (TRANSPARENT)	PE 48/6/3015F	None	None	✓	✓	✓	300°C	8	5	✓	✓	
LIGHT GREEN	PE 48/6/3000F	3245C	None	✓	✓	✓	300°C	8	5	✓	✓	
MID GREEN	PE 48/6/3011F	7482C	None	✓	✓	*	240°C	6	1	✓	✓	Bluest shade through to yellowest shade heavy metal free mid greens
	PE 48/6/3450F	354C	None	✓	✓	*	240°C	6	1	✓	✓	
	PE 48/6/3116F	355C	None	✓	✓	✓	260°C	7	3/4	✓	✓	
	PE 48/6/3012F	None	None	✓	✓	*	240°C	6	1	✓	✓	
	PE 48/6/3800F	362C	None	✓	✓	*	230°C	6	1	✓	✓	
DARK GREEN	PE 48/6/3641F	3308C	None	✓	✓	*	240°C	6	1	✓	✓	Bluest shade through to yellowest shade heavy metal free dark greens
	PE 48/6/3510F	356C	None	✓	✓	*	230°C	6	1	✓	✓	
	PE 48/6/3600F	555C	None	✓	✓	*	220°C	8	4/5	✓	✓	
	PE 48/6/3888F	350C	None	✓	✓	✓	300°C	8	4/5	✓	✓	
MID GREEN	PE 48/6/3251F	355C	None	✓	✓	*	240°C	7	4	X	X	Bluest shade through to yellowest shade lead based mid greens
	PE 48/6/3420F	361C	None	✓	✓	*	240°C	7	4	X	X	
DARK GREEN	PE 48/6/3315F	356C	None	✓	✓	*	240°C	7	4	X	X	Bluest shade through to yellowest shade lead based dark greens
	PE 48/6/3373F	553C	6020	✓	✓	*	240°C	7/8	4/5	X	X	
SILVER	PE 48/7/7030F	877C	9022	✓	✓	✓	300°C	8	5	✓	✓	
GOLD	PE 48/7/7171F	872C	None	✓	✓	X	200°C	7	4	✓	✓	
BEIGE	PE 48/2/2097F	7506C	None	✓	✓	✓	300°C	8	4/5	✓	✓	Greenest shade through to reddest shade heavy metal free beiges
	PE 48/2/1266F	4655C	None	✓	✓	✓	250°C	7/8	4	✓	✓	
IVORY	PE 48/2/9600F	None	9001	✓	✓	✓	300°C	7/8	4	✓	✓	Greenest shade through to reddest shade heavy metal free ivories
	PE 48/2/9035F	7401C	None	✓	✓	✓	300°C	8	4/5	✓	✓	
GREY	PE 48/7/8368F	431C	7024	✓	✓	✓	300°C	8	5	✓	✓	Darkest shade through to lightest shade heavy metal free greys
	PE 48/7/8035F	C. GRAY 8C	None	✓	✓	✓	300°C	8	5	✓	✓	
	PE 48/7/8899F	C. GRAY 6C	7045	✓	✓	✓	300°C	8	5	✓	✓	
	PE 48/7/8760F	428C	7040	✓	✓	✓	300°C	8	5	✓	✓	
TERRACOTTA	PE 48/8/1340F	1675C	None	✓	✓	✓	300°C	8	5	✓	✓	
MID BROWN	PE 48/8/1281F	None	8012	✓	✓	✓	300°C	8	5	✓	✓	
DARK BROWN	PE 48/8/1550F	4975C	None	✓	✓	✓	300°C	8	5	✓	✓	Darkest shade through to lightest shade heavy metal free browns
	PE 48/8/1028F	476C	None	✓	✓	✓	300°C	8	5	✓	✓	

Standard Colour Range

The standard Colloids colour range for moulding applications contains a selection of popular colours. All the masterbatches detailed below are based on a polyethylene carrier system and are typically used at 1-3% let down depending on application. Their suitability for use in various polymers is shown in the table below. For information on suitability for use in other polymers or for a set of plaques illustrating our standard colours please contact the Colloids sales team.

Yellow Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office				HEAT STABILITY **	LIGHT FASTNESS ***	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE	PP					
YELLOW	PE 48/2/2057F	3945C	1016	✓	✓	*	*	240°C	6/7	✓	✓	Greenest shade through to reddest shade standard heavy metal free yellows
	PE 48/2/2450F	107C	None	✓	✓	*	*	240°C	6/7	✓	✓	
	PE 48/2/2905F	N/A	N/A	✓	✓	✓	✓	240°C	7	✓	✓	
	PE 48/2/2904F	114C	1018	✓	✓	✓	✓	240°C	7	✓	✓	
	PE 48/2/2028F	1225C	1003	✓	✓	*	*	230°C	6	✓	✓	
YELLOW	PE 48/2/2449F	N/A	N/A	✓	✓	*	*	240°C	7	X	X	Greenest shade through to reddest shade lead based yellows
	PE 48/2/2787F	108C	None	✓	✓	*	*	240°C	7	X	X	
	PE 48/2/2600F	116C	1023	✓	✓	*	*	240°C	7	X	X	
	PE 48/2/2200F	116C	1023	✓	✓	*	*	240°C	7	X	X	
	PE 48/2/2410F	N/A	N/A	✓	✓	*	*	240°C	7	X	X	

Orange Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office				HEAT STABILITY **	LIGHT FASTNESS ***	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE	PP					
ORANGE	PE 48/3/1902F	137C	1028	✓	✓	✓	✓	240°C	7	✓	✓	Yellowest shade through to reddest shade heavy metal free oranges
	PE 48/3/1900F	N/A	N/A	✓	✓	*	*	230°C	5	✓	✓	
	PE 48/3/1046F	1645C	None	✓	✓	✓	✓	240°C	5	✓	✓	
ORANGE	PE 48/3/1310F	1495C	2003	✓	✓	*	*	240°C	7	X	X	Yellowest shade through to reddest shade lead based oranges
	PE 48/3/1703F	N/A	N/A	✓	✓	*	*	240°C	7	X	X	
	PE 48/3/1096F	172C	None	✓	✓	*	*	240°C	7/8	X	X	

Red Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office				HEAT STABILITY **	LIGHT FASTNESS ***	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE	PP					
RED	PE 48/4/5909F	N/A	N/A	✓	✓	✓	✓	260°C	7	✓	✓	Yellowest shade through to bluest shade heavy metal free reds
	PE 48/4/5557F	179C	None	✓	✓	✓	✓	240°C	5/6	✓	✓	
	PE 48/4/5020F	186C	None	✓	✓	✓	✓	240°C	4	✓	✓	
	PE 48/4/5330F	1795C	None	✓	✓	✓	✓	250°C	6	✓	✓	
	PE 48/4/5505F	187C	3031	✓	✓	*	*	240°C	6	✓	✓	
	PE 48/4/5500F	201C	3002	✓	✓	✓	✓	240°C	6	✓	✓	
RED	PE 48/4/5670F	209C	3004	✓	✓	✓	✓	240°C	6	✓	✓	Yellowest shade through to bluest shade lead based reds
	PE 48/4/5170F	1795C	3020	✓	✓	*	*	240°C	6	X	X	
	PE 48/4/5517F	1797C	None	✓	✓	*	*	240°C	6	X	X	

Pink Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office				HEAT STABILITY **	LIGHT FASTNESS ***	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE	PP					
PINK	PE 48/4/5246F	1905C	None	✓	✓	✓	✓	270°C	7	✓	✓	Bluest shade through to yellowest shade heavy metal free pinks
	PE 48/4/5080F	176C	None	✓	✓	✓	✓	290°C	7	✓	✓	

Violet Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office				HEAT STABILITY **	LIGHT FASTNESS ***	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE	PP					
VIOLET	PE 48/5/4022F	None	None	✓	✓	✓	✓	240°C	6	✓	✓	

Blue Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office				HEAT STABILITY **	LIGHT FASTNESS ***	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE	PP					
LIGHT BLUE	PE 48/5/4535F	299C	None	✓	✓	✓	✓	290°C	8	✓	✓	Greenest shade through to reddest shade heavy metal free light blues
	PE 48/5/4012F	298C	None	✓	✓	✓	✓	280°C	8	✓	✓	
	PE 48/5/4300F	2915C	None	✓	✓	✓	✓	280°C	8	✓	✓	
MID BLUE	PE 48/5/4025F	2945C	None	✓	✓	✓	✓	290°C	8	✓	✓	Greenest shade through to reddest shade heavy metal free mid blues
	PE 48/5/4021F	None	None	✓	✓	✓	✓	290°C	8	✓	✓	
DARK BLUE	PE 48/5/4020F	2755C	None	✓	✓	✓	✓	290°C	8	✓	✓	Greenest shade through to reddest shade heavy metal free dark blues
	PE 48/5/4500F	None	None	✓	✓	✓	✓	300°C	8	✓	✓	
	PE 48/5/4656F	289C	None	✓	✓	✓	✓	240°C	7	✓	✓	

Turquoise Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office				HEAT STABILITY **	LIGHT FASTNESS ***	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE	PP					
TURQUOISE	PE 48/5/4358F	N/A	N/A	✓	✓	✓	✓	280°C	8	✓	✓	

Green Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office				HEAT STABILITY **	LIGHT FASTNESS ***	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE	PP					
LIGHT GREEN	PE 48/6/3000F	3245C	None	✓	✓	✓	✓	300°C	8	✓	✓	
MID GREEN	PE 48/6/3011F	7482C	None	✓	✓	*	*	240°C	6	✓	✓	Bluest shade through to yellowest shade heavy metal free mid greens
	PE 48/6/3450F	7482C	None	✓	✓	*	*	240°C	6	✓	✓	
	PE 48/6/3116F	N/A	N/A	✓	✓	✓	✓	260°C	7	✓	✓	
	PE 48/6/3012F	355C	None	✓	✓	*	*	240°C	6	✓	✓	
	PE 48/6/3800F	362C	None	✓	✓	*	*	230°C	6	✓	✓	
DARK GREEN	PE 48/6/3015F	316C	None	✓	✓	✓	✓	300°C	8	✓	✓	Bluest shade through to yellowest shade heavy metal free dark greens
	PE 48/6/3641F	N/A	N/A	✓	✓	*	*	240°C	6	✓	✓	
	PE 48/6/3510F	356C	None	✓	✓	*	*	230°C	6	✓	✓	
	PE 48/6/3600F	357C	None	✓	✓	*	*	220°C	8	✓	✓	
MID GREEN	PE 48/6/3888F	N/A	N/A	✓	✓	✓	✓	300°C	8	✓	✓	Bluest shade through to yellowest shade lead based mid greens
	PE 48/6/3251F	355C	None	✓	✓	*	*	240°C	7	X	X	
DARK GREEN	PE 48/6/3420F	362C	None	✓	✓	*	*	240°C	7	X	X	Bluest shade through to yellowest shade lead based dark greens
	PE 48/6/3315F	349C	None	✓	✓	*	*	240°C	7	X	X	
	PE 48/6/3373F	5615C	6020	✓	✓	*	*	240°C	7/8	X	X	

Silver/Gold Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office				HEAT STABILITY **	LIGHT FASTNESS ***	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE	PP					
SILVER	PE 48/7/7030F	877C	9023	✓	✓	✓	✓	300°C	8	✓	✓	
GOLD	PE 48/7/7171F	872C	None	✓	✓	X	X	200°C	7	✓	✓	

Beige/Ivory Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office				HEAT STABILITY **	LIGHT FASTNESS ***	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE	PP					
BEIGE	PE 48/2/2097F	None	1001	✓	✓	✓	✓	300°C	8	✓	✓	Greenest shade through to reddest shade heavy metal free beiges
	PE 48/2/1266F	N/A	N/A	✓	✓	✓	✓	250°C	7/8	✓	✓	
IVORY	PE 48/2/9600F	N/A	N/A	✓	✓	✓	✓	300°C	7/8	✓	✓	Greenest shade through to reddest shade heavy metal free ivories
	PE 48/2/9035F	7401C	None	✓	✓	✓	✓	300°C	8	✓	✓	

Grey Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office				HEAT STABILITY **	LIGHT FASTNESS ***	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE	PP					
GREY	PE 48/7/8368F	N/A	N/A	✓	✓	✓	✓	300°C	8	✓	✓	Darkest shade through to lightest shade heavy metal free greys
	PE 48/7/8035F	C. GRAY 7C	7046	✓	✓	✓	✓	300°C	8	✓	✓	
	PE 48/7/8899F	429C	None	✓	✓	✓	✓	300°C	8	✓	✓	
	PE 48/7/8760F	428C	7040	✓	✓	✓	✓	300°C	8	✓	✓	

Terracotta/Brown Masterbatch

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office				HEAT STABILITY **	LIGHT FASTNESS ***	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE	PP					
TERRACOTTA	PE 48/8/1340F	174C	None	✓	✓	✓	✓	300°C	8	✓	✓	
MID BROWN	PE 48/8/1281F	161C	8011	✓	✓	✓	✓	300°C	8	✓	✓	
DARK BROWN	PE 48/8/1550F	None	None	✓	✓	✓	✓	300°C	8	✓	✓	Darkest shade through to lightest shade heavy metal free browns
	PE 48/8/1028F	476C	None	✓	✓	✓	✓	300°C	8	✓	✓	

All Colours

COLOUR	GRADE	CLOSEST PANTONE® REFERENCE *	CLOSEST RAL REFERENCE *	POLYMER COMPATIBILITY For other polymers please contact Colloids sales office				HEAT STABILITY **	LIGHT FASTNESS ***	FOOD CONTACT APPROVED *****	PACKAGING DIRECTIVE EC 94/62 *****	COMMENTS
				LLDPE	LDPE	HDPE	PP					
YELLOW	PE 48/2/2057F	3945C	1016	✓	✓	*	*	240°C	6/7	✓	✓	Greenest shade through to reddest shade standard heavy metal free yellows
	PE 48/2/2450F	107C	None	✓	✓	*	*	240°C	6/7	✓	✓	
	PE 48/2/2905F	N/A	N/A	✓	✓	✓	✓	240°C	7	✓	✓	
	PE 48/2/2904F	114C	1018	✓	✓	✓	✓	240°C	7	✓	✓	
	PE 48/2/2028F	1225C	1003	✓	✓	*	*	230°C	6	✓	✓	
YELLOW	PE 48/2/2449F	N/A	N/A	✓	✓	*	*	240°C	7	X	X	Greenest shade through to reddest shade lead based yellows
	PE 48/2/2787F	108C	None	✓	✓	*	*	240°C	7	X	X	
	PE 48/2/2600F	116C	1023	✓	✓	*	*	240°C	7	X	X	
	PE 48/2/2200F	116C	1023	✓	✓	*	*	240°C	7	X	X	
	PE 48/2/2410F	N/A	N/A	✓	✓	*	*	240°C	7	X	X	
ORANGE	PE 48/3/1902F	137C	1028	✓	✓	✓	✓	240°C	7	✓	✓	Yellowest shade through to reddest shade heavy metal free oranges
	PE 48/3/1900F	N/A	N/A	✓	✓	*	*	230°C	5	✓	✓	
	PE 48/3/1046F	1645C	None	✓	✓	✓	✓	240°C	5	✓	✓	
ORANGE	PE 48/3/1310F	1495C	2003	✓	✓	*	*	240°C	7	X	X	Yellowest shade through to reddest shade lead based oranges
	PE 48/3/1703F	N/A	N/A	✓	✓	*	*	240°C	7	X	X	
	PE 48/3/1096F	172C	None	✓	✓	*	*	240°C	7/8	X	X	
RED	PE 48/4/5909F	N/A	N/A	✓	✓	✓	✓	260°C	7	✓	✓	Yellowest shade through to bluest shade heavy metal free reds
	PE 48/4/5557F	179C	None	✓	✓	✓	✓	240°C	5/6	✓	✓	
	PE 48/4/5020F	186C	None	✓	✓	✓	✓	240°C	4	✓	✓	
	PE 48/4/5330F	1795C	None	✓	✓	✓	✓	250°C	6	✓	✓	
	PE 48/4/5505F	187C	3031	✓	✓	*	*	240°C	6	✓	✓	
	PE 48/4/5500F	201C	3002	✓	✓	✓	✓	240°C	6	✓	✓	
	PE 48/4/5670F	209C	3004	✓	✓	✓	✓	240°C	6	✓	✓	
RED	PE 48/4/5170F	1795C	3020	✓	✓	*	*	240°C	6	X	X	Yellowest shade through to bluest shade lead based reds
	PE 48/4/5517F	1797C	None	✓	✓	*	*	240°C	6	X	X	
PINK	PE 48/4/5246F	1905C	None	✓	✓	✓	✓	270°C	7	✓	✓	Bluest shade through to yellowest shade heavy metal free pinks
	PE 48/4/5080F	176C	None	✓	✓	✓	✓	290°C	7	✓	✓	
VIOLET	PE 48/5/4022F	None	None	✓	✓	✓	✓	240°C	6	✓	✓	
LIGHT BLUE	PE 48/5/4535F	299C	None	✓	✓	✓	✓	290°C	8	✓	✓	Greenest shade through to reddest shade heavy metal free light blues
	PE 48/5/4012F	298C	None	✓	✓	✓	✓	280°C	8	✓	✓	
	PE 48/5/4300F	2915C	None	✓	✓	✓	✓	280°C	8	✓	✓	
MID BLUE	PE 48/5/4025F	2945C	None	✓	✓	✓	✓	290°C	8	✓	✓	Greenest shade through to reddest shade heavy metal free mid blues
	PE 48/5/4021F	None	None	✓	✓	✓	✓	290°C	8	✓	✓	
DARK BLUE	PE 48/5/4020F	2755C	None	✓	✓	✓	✓	290°C	8	✓	✓	Greenest shade through to reddest

	PE 48/5/4500F	None	None	✓	✓	✓	✓	300°C	8	✓	✓	shade heavy metal free dark blues
	PE 48/5/4656F	289C	None	✓	✓	✓	✓	240°C	7	✓	✓	
TURQUOISE	PE 48/5/4358F	N/A	N/A	✓	✓	✓	✓	280°C	8	✓	✓	
LIGHT GREEN	PE 48/6/3000F	3245C	None	✓	✓	✓	✓	300°C	8	✓	✓	
MID GREEN	PE 48/6/3011F	7482C	None	✓	✓	*	*	240°C	6	✓	✓	Bluest shade through to yellowest shade heavy metal free mid greens
	PE 48/6/3450F	7482C	None	✓	✓	*	*	240°C	6	✓	✓	
	PE 48/6/3116F	N/A	N/A	✓	✓	✓	✓	260°C	7	✓	✓	
	PE 48/6/3012F	355C	None	✓	✓	*	*	240°C	6	✓	✓	
	PE 48/6/3800F	362C	None	✓	✓	*	*	230°C	6	✓	✓	
DARK GREEN	PE 48/6/3015F	316C	None	✓	✓	✓	✓	300°C	8	✓	✓	Bluest shade through to yellowest shade heavy metal free dark greens
	PE 48/6/3641F	N/A	N/A	✓	✓	*	*	240°C	6	✓	✓	
	PE 48/6/3510F	356C	None	✓	✓	*	*	230°C	6	✓	✓	
	PE 48/6/3600F	357C	None	✓	✓	*	*	220°C	8	✓	✓	
	PE 48/6/3888F	N/A	N/A	✓	✓	✓	✓	300°C	8	✓	✓	
MID GREEN	PE 48/6/3251F	355C	None	✓	✓	*	*	240°C	7	X	X	Bluest shade through to yellowest shade lead based mid greens
	PE 48/6/3420F	362C	None	✓	✓	*	*	240°C	7	X	X	
DARK GREEN	PE 48/6/3315F	349C	None	✓	✓	*	*	240°C	7	X	X	Bluest shade through to yellowest shade lead based dark greens
	PE 48/6/3373F	5615C	6020	✓	✓	*	*	240°C	7/8	X	X	
SILVER	PE 48/7/7030F	877C	9023	✓	✓	✓	✓	300°C	8	✓	✓	
GOLD	PE 48/7/7171F	872C	None	✓	✓	X	X	200°C	7	✓	✓	
BEIGE	PE 48/2/2097F	None	1001	✓	✓	✓	✓	300°C	8	✓	✓	Greenest shade through to reddest shade heavy metal free beiges
	PE 48/2/1266F	N/A	N/A	✓	✓	✓	✓	250°C	7/8	✓	✓	
IVORY	PE 48/2/9600F	N/A	N/A	✓	✓	✓	✓	300°C	7/8	✓	✓	Greenest shade through to reddest shade heavy metal free ivories
	PE 48/2/9035F	7401C	None	✓	✓	✓	✓	300°C	8	✓	✓	
GREY	PE 48/7/8368F	N/A	N/A	✓	✓	✓	✓	300°C	8	✓	✓	Darkest shade through to lightest shade heavy metal free greys
	PE 48/7/8035F	C. GRAY 7C	7046	✓	✓	✓	✓	300°C	8	✓	✓	
	PE 48/7/8899F	429C	None	✓	✓	✓	✓	300°C	8	✓	✓	
	PE 48/7/8760F	428C	7040	✓	✓	✓	✓	300°C	8	✓	✓	
TERRACOTTA	PE 48/8/1340F	174C	None	✓	✓	✓	✓	300°C	8	✓	✓	
MID BROWN	PE 48/8/1281F	161C	8011	✓	✓	✓	✓	300°C	8	✓	✓	
DARK BROWN	PE 48/8/1550F	None	None	✓	✓	✓	✓	300°C	8	✓	✓	Darkest shade through to lightest shade heavy metal free browns
	PE 48/8/1028F	476C	None	✓	✓	✓	✓	300°C	8	✓	✓	