



Procion® MX Dyes

Procion MX Color Mixing Chart

An unlimited color palette can be mixed with Procion MX fiber reactive dyes. Measured quantities of specific colors yield predictable new colors. These color formulas or recipes are suggestions for color. The variables of fiber type and processing, water purity, temperature and freshness of chemical assistants can dramatically vary the dyed results. Always run dye tests, observe and record results before any major dye run. The following color recipes are shown in two measurements—teaspoons and parts. The teaspoon measurements are for one pound of fiber. For convenience you can use the parts measurements to mix other quantities of dye. Reduce or expand the recipe proportionally to match the weight of the fiber.

Color	Mix	Teaspoons	Parts
Daffodil	004 Lemon Yellow	2 1/4 tsp.	9 parts
	010 Bright Golden Yellow	1 tsp.	1 part
Goldenrod	004 Lemon Yellow	4 tsp.	16 parts
	020 Brilliant Orange	1/4 tsp.	1 part
Wheat	010 Bright Golden Yellow	2 1/4 tsp.	18 parts
	128 Warm Black	1/8 tsp.	1 part
Pea Green	010 Bright Golden Yellow	2 1/4 tsp.	9 parts
	072 Medium Blue	1/4 tsp.	1 part
Apricot	010 Bright Golden Yellow	2 1/4 tsp.	9 parts
	020 Brilliant Orange	1/4 tsp.	1 part
Peach	016 Rust Orange	1 1/2 tsp.	6 parts
Harvest Orange	010 Bright Golden Yellow	2 1/4 tsp.	18 parts
	020 Brilliant Orange	1 1/8 tsp.	9 parts
	128 Warm Black	1/8 tsp.	1 part
Salmon	020 Brilliant Orange	2 1/4 tsp.	18 parts
	128 Warm Black	1/8 tsp.	1 part
Tangerine	010 Bright Golden Yellow	2 3/4 tsp.	11 parts
	030 Fire Engine Red	1 1/2 tsp.	6 parts
Red Orange	010 Bright Golden Yellow	2 3/4 tsp.	11 parts
	032 Carmine Red	1 1/2 tsp.	6 parts
Coral	030 Fire Engine Red	2 1/4 tsp.	9 parts
	128 Warm Black	1/16 tsp.	tone with
Antique Rose	030 Fire Engine Red	2 1/4 tsp.	9 parts
	128 Warm Black	1/4 tsp.	1 part
Rose	032 Carmine Red	2 3/4 tsp.	11 parts
	010 Bright Golden Yellow	1 1/2 tsp.	6 parts
Burnt Orange	010 Bright Golden Yellow	2 1/4 tsp.	9 parts
	030 Fire Engine Red	2 1/4 tsp.	9 parts
	128 Warm Black	1/4 tsp.	1 part
Chinese Red	032 Carmine Red	4 1/2 tsp.	2 parts
	010 Bright Golden Yellow	2 1/4 tsp.	1 part
Bubble Gum Pink	040 Fuchsia	2 1/4 tsp.	1 part
Dark Pink	034 Magenta	2 1/4 tsp.	9 parts
	072 Medium Blue	1/4 tsp.	1 part
Hot Pink	040 Fuchsia	3 tsp.	1 part
Mauve	126 Brown Rose	1 1/2 tsp.	6 parts

Color	Mix	Teaspoons	Parts
Berry Sorbet	040 Fuchsia	1 1/2 tsp.	6 parts
	068 Turquoise	3/4 tsp.	3 parts
	128 Warm Black	1/4 tsp.	1 part
Orchid	040 Fuchsia	2 1/4 tsp.	1 part
	068 Turquoise	1/4 tsp.	1 part
Plum	040 Fuchsia	3 tsp.	2 parts
	072 Medium Blue	1 1/2 tsp.	1 parts
Deep Purple	040 Fuchsia	3 tsp.	2 parts
	070 Cerulean Blue	1 1/2 tsp.	1 parts
Lavender	072 Medium Blue	2 1/4 tsp.	9 parts
	030 Fire Engine Red	1 tsp.	4 parts
Amethyst	034 Magenta	2 1/4 tsp.	1 part
	070 Cerulean Blue	2 1/4 tsp.	1 part
Maroon	032 Carmine Red	3 tsp.	2 parts
	078 Navy	1 1/2 tsp.	1 part
Purple Violet	040 Fuchsia	4 1/2 tsp.	9 parts
	070 Cerulean Blue	4 1/2 tsp.	9 parts
Blue Violet	078 Navy	2 1/4 tsp.	1 part
	032 Carmine Red	2 1/4 tsp.	1 part
Red Violet	078 Navy	2 1/4 tsp.	1 part
	040 Fuchsia	2 1/4 tsp.	1 part
	076 Cobalt Blue	2 1/4 tsp.	1 part
Pansy Purple	078 Navy	2 1/4 tsp.	9 parts
	040 Fuchsia	1 1/4 tsp.	5 parts
Periwinkle	078 Navy	2 1/4 tsp.	9 parts
	040 Fuchsia	2 1/4 tsp.	4 parts
	076 Cobalt Blue	1 tsp.	4 parts
Sapphire Blue	040 Fuchsia	2 1/2 tsp.	1 part
	078 Navy	2 1/2 tsp.	1 part
Ultramarine	126 Brown Rose	2 1/2 tsp.	1 part
	078 Navy	2 1/2 tsp.	1 part
Heritage Blue	072 Medium Blue	3 tsp.	2 parts
	128 Warm Black	1 1/2 tsp.	1 part
Powder Blue	078 Navy	1 1/2 tsp.	2 parts
	128 Warm Black	3/4 tsp.	1 part
French Blue	076 Cobalt Blue	1 1/2 tsp.	12 parts
	128 Warm Black	1/8 tsp.	1 part
Sky Blue	072 Medium Blue	2 1/4 tsp.	9 parts
	128 Warm Black	1 1/4 tsp.	1 part

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Color	Mix	Teaspoons	Parts
Mountain	070 Cerulean Blue	2 1/4 tsp.	9 parts
	128 Warm Black	1/4 tsp.	1 part
Chicory Blue	072 Medium Blue	1 1/2 tsp.	1 part
	078 Navy	1 1/2 tsp.	1 part
Postman Blue	076 Cobalt Blue	2 1/4 tsp.	1 part
	078 Navy	2 1/4 tsp.	1 part
Prussian Blue	070 Cerulean Blue	5 tsp.	1 part
	078 Navy	5 tsp.	1 part
Confederate Blue	068 Turquoise	2 1/4 tsp.	9 parts
	020 Brilliant Orange	1/4 tsp.	1 part
Sea Foam	070 Cerulean Blue	1 tsp.	4 parts
	016 Rust Orange	1/4 tsp.	1 part
Blue Mist	068 Turquoise	2 1/4 tsp.	9 parts
	016 Rust Orange	1/4 tsp.	1 part
New Aqua	068 Turquoise	4 1/2 tsp.	5 parts
	004 Lemon Yellow	1/2 tsp.	1 part
	128 Warm Black	1/2 tsp.	1 part
Blue Spruce	004 Lemon Yellow	2 1/4 tsp.	1 part
	076 Cobalt Blue	2 1/4 tsp.	1 part
Teal	078 Navy	2 1/4 tsp.	1 part
	004 Lemon Yellow	2 1/4 tsp.	1 part
Jade	004 Lemon Yellow	4 1/2 tsp.	9 parts
	070 Cerulean Blue	2 1/4 tsp.	5 parts
	072 Medium Blue	2 1/4 tsp.	5 parts
Yellow Green	004 Lemon Yellow	2 1/4 tsp.	18 parts
	072 Medium Blue	1/8 tsp.	1 part
Chartreuse	004 Lemon Yellow	4 tsp.	64 parts
	072 Medium Blue	1/16 tsp.	1 part
Vermillion Green	068 Turquoise	2 1/4 tsp.	1 part
	010 Bright Golden Yellow	2 1/4 tsp.	1 part
Lime Green	004 Lemon Yellow	2 3/4 tsp.	22 parts
	068 Turquoise	1 1/8 tsp.	9 parts
Spring Green	004 Lemon Yellow	2 3/4 tsp.	13 parts
	068 Turquoise	5 tsp.	10 parts
	072 Medium Blue	1 1/2 tsp.	3 parts
Shamrock	004 Lemon Yellow	5 tsp.	20 parts
	068 Turquoise	5 tsp.	20 parts
	072 Medium Blue	2 1/4 tsp.	9 parts

Note: You may notice that there are several recipes that have the same constituent colors and the same parts measurements but different teaspoon measurements. This is because when dye concentrations are increased in the dye bath, there is often a color shift.

Color	Mix	Teaspoons	Parts
Fern Green	004 Lemon Yellow	2 3/4 tsp.	11 parts
	076 Cobalt Blue	1 1/2 tsp.	6 parts
Sage	016 Rust Orange	1 1/2 tsp.	1 part
	070 Cerulean Blue	1 1/2 tsp.	1 part
Fatigue Green	016 Rust Orange	4 tsp.	1 part
	070 Cerulean Blue	4 tsp.	1 part
Avocado	004 Lemon Yellow	3 tsp.	2 parts
	078 Navy	1 1/2 tsp.	1 part
Artichoke	016 Rust Orange	2 1/4 tsp.	1 part
	068 Turquoise	2 1/4 tsp.	1 part
Khaki	016 Rust Orange	2 1/4 tsp.	1 part
	068 Turquoise	2 1/4 tsp.	1 part
Desert Green	016 Rust Orange	1 1/2 tsp.	1 part
	072 Medium Blue	1 1/2 tsp.	1 part
Olive	016 Rust Orange	4 tsp.	1 part
	072 Medium Blue	4 tsp.	1 part
Brown Sienna	004 Lemon Yellow	3 tsp.	2 parts
	072 Medium Blue	1 1/2 tsp.	1 part
	020 Brilliant Orange	1 1/2 tsp.	1 part
Pottery	016 Rust Orange	3 1/2 tsp.	28 parts
	126 Brown Rose	1 1/8 tsp.	9 parts
Terra Cotta	016 Rust Orange	3 1/2 tsp.	28 parts
	124 Burgundy	1 1/8 tsp.	9 parts
Flesh	016 Rust Orange	1/2 tsp.	1 part
	124 Burgundy	1/2 tsp.	1 part
Red Earth	126 Brown Rose	2 1/4 tsp.	1 part
	128 Warm Black	2 1/4 tsp.	1 part
	020 Brilliant Orange	2 1/4 tsp.	1 part
Indian Red	124 Burgundy	2 1/4 tsp.	1 part
	030 Fire Engine Red	2 1/4 tsp.	1 part
Cerise	032 Carmine Red	3 tsp.	2 parts
	072 Medium Blue	1 1/2 tsp.	1 part
Dark Gray	150 Jet Black	12 tsp.	1 part
Charcoal	150 Jet Black	24 tsp.	1 part

Note: Small quantities of dye can be measured easily from a stock solution of 1 teaspoon of dye powder dissolved in 1/2 cup water. Use the following chart:

- 1 tsp. dry dye powder = 1/2 cup (24 tsp.) stock solution
- 1/2 tsp. dry dye powder = 1/4 cup stock solution
- 1/4 tsp. dry dye powder = 6 tsp. stock solution
- 1/8 tsp. dry dye powder = 3 tsp. stock solution
- 1/16 tsp. dry dye powder = 1 1/2 tsp. stock solution