



who benefits from our superior pigments
for plastics applications?

you do.

working for you

Solutions. Tailor-Made.™

SunChemical®

a member of the DIC group



for the broadest range of color for your plastics colorant needs, choose Sun Chemical Performance Pigments.

Sun Chemical Performance Pigments is a world-wide leading manufacturer of colors, effects and dispersions for the plastics industry. Through Quality, Service and Innovation we are able to expand our product portfolio into new codes, chemistries and dispersions.

This brochure outlines the main codes and product lines from Sun Chemical recommended for plastics. However, it is not all inclusive. There may be other grades available to better suit your needs. For more information please contact one of our Sales and Technical representatives.

Trade Name Information

Chaos - Premium high sparkle synthetic micas. Available as weather resistant and untreated grades.

Fanchon[®] - High performance pigments for plastics.

Fastogen[®] - Phthalocyanine pigments for plastics.

Fastogen[®] **Super** - High performance pigments for plastics.

Indofast[®] - High performance carbazole violet pigments for plastics.

Palomar[®] - High performance tetrachlor phthalocyanine and Indanthrone pigments.

Perrindo[®] - High performance perylene pigments for plastics.

Predisol[®] - A range of highly pigmented (50 - 60%) dispersions for plastics.

Quindo[®] - High performance quinacridone pigments for plastics.

Reflex - Synthetic micas pearlescent pigments available as weather resistant and untreated grades.

Sunbrite[®] - Classical azo pigments for plastics.

SunCROMA[®] - D&C and FD&C pigments for plastics.

Sunfast[®] - Phthalocyanine pigments for plastics.

SunGEM[™] - Specialty metal oxide coated colored pearlescent mica.

SunMetallics[®] **Fuse Series**- Aluminum pigments for plastics.

SunMica[®] - Natural untreated pearlescent micas.

Sunplast[®] - Free-flowing, low dusting, micro granular dry color.

technical data and physical properties

FDA Status

Ø: No

√: Yes

¹ = For use not to exceed 1% by weight of polymers. The finished articles are to contact food only under conditions of use B through H described in table 2 of 21CFR 176.170 (c)

² = Please review FCN 426 for details condition and use restrictions

³ = The polyethylene resin in these products complies with 21 CFR 177.1520 for use as a component of food contact coatings at levels up to and including 50% by weight of any mixture employed as a food contact coating conforming to paragraph (c) 2.3.

⁴ = For use at levels not to exceed 1.0 percent by weight of polymers. The finished articles are to contact food only under conditions of use B through G described in table 2 of 21 CFR 176.170 (c).

⁵ = 177.2600

Heat Stability:

Maximum suggested process temperatures. While higher temperatures may be possible, testing in critical applications is suggested. Our testing consists of color level: Tint=0.1% Pigment and 1.9% TiO₂ with five minute time intervals for each temperature level. A 2 unit CIE Lab change (Delta E) from the lowest molding temperature was taken as the cut off point in establishing the maximum temperature quoted.

Light Stability:

Light Stability Results are based on Fadometer Standardized to Blue Wool scale. Tested to a 20% change from unexposed strip (Gray scale of 3). A pigment with a 1 rating will have very poor stability while an 8 would indicate very good light fastness (B.S.6006).





Application Data

A: Generally good properties





B: Possible heat stability problems



















C: Possible migration problems




D: Possible migration of carrier resins

Masstone	1:19 Tint	Product Code Trade Name Color Index	FDA	Heat Stability	Light Fast Tint	Application Data					Comments
						Rubber	pPVC	PE	PP	PS	
		279-5138 Fanchon® Yellow 138 PY 138	√	500°F 260°C	7	A	C	A	A	A	Quinophthalone Yellow
		271-5151 Fanchon® Yellow 151 PY 151	∅	550°F 290°C	7	A	C	A	A	A	Benzimidazolone Standard Dry
		275-0023 Sunbrite® Yellow 17 PY 17	∅	392°F 200°C	5-6	A	C	A	B	A	Diarylide AAOA Standard Dry
		271-5154 Fanchon® Yellow 154 PY 154	∅	392°F 200°C	7-8	A	C	A	B	B	Benzimidazolone
		279-0155 Sunbrite® Yellow 155 PY 155	∅	500°F 260°C	7	A	A	A	A	A	Disazo Condensation
		274-5126 Sunbrite® Yellow 14 PY 14	∅	392°F 200°C	3-4	A	C	A	B	B	Diarylide AAOT
		274-3954 Sunbrite® Yellow 14 PY 14	∅	392°F 200°C	3-4	A	C	A	B	B	Diarylide AAOT Standard Dry
		279-0150 Fanchon® Yellow 150 PY 150	∅	575°F 300°C	8	A	A	A	A	A	Ni Azo Yellow
		273-3557 Sunbrite® Yellow 12 PY 12	∅	340°F 170°C	2	A	C	B	B	B	Diarylide AAA Standard Dry
		275-0049 Sunbrite® Yellow 13 PY 13	∅	392°F 200°C	5	A	C	A	B	B	Diarylide AAMX - Standard Dry
		262-3562 Sunbrite® Yellow 62 PY 62	∅	480°F 250°C	5	A	A	A	A	B	Ca Lake Mono Azo

3 Technical Pigments for Plastics

Masstone	1:19 Tint	Product Code Trade Name Color Index	FDA	Heat Stability	Light Fast Tint	Application Data					Comments
						Rubber	pPVC	PE	PP	PS	
		271-5180 Fanchon® Yellow 180 PY 180	√ ⁴	550°F 290°C	7-8	A	A	A	A	A	Benzimidazolone Standard Dry
		279-0139 Fanchon® Yellow 139 PY 139	∅	500°F 260°C	6-7	A	A	A	A	A	Isindoline - Yellow
		279-1139 Fanchon® Yellow 139 PY 139	∅	500°F 260°C	6-7	A	A	A	A	A	Isindoline - Yellow - Fiber Grade
		275-0570 Sunbrite® Yellow 83 PY 83	∅	392°F 200°C	5-6	A	C	A	B	A	Diarylide AADMCA Standard Dry
		275-4570 Sunbrite® Yellow 83 PY 83	∅	392°F 200°C	5-6	A	C	A	B	A	Diarylide AADMCA Standard Dry
		279-7110 Fanchon® Yellow 110 PY 110	√ ¹	525°F 275°C	8	A	A	A	A	A	Isindolinone - Yellow
		279-8110 Fanchon® Yellow 110 PY 110	∅	525°F 275°C	8	A	A	A	A	A	Isindolinone - Yellow
		276-1430 Fanchon® Orange 43 PO 43	∅	536°F 280°C	8	A	C	A	A	A	Perinone - Excellent weather fastness
		271-6430 Fanchon® Orange 64 PO 64	√	550°F 290°C	8	A	A	A	A	A	High Performance Orange - Non Warp - Benzimidazolone Standard Dry
		212-7152 Sunbrite® Orange 46 PO 46	∅	575°F 300°C	2	A	C	A	A	A	Ba Azo Orange - Standard Dry
		236-0038 Sunbrite® Red 38 PR 38	√ ⁵	350°F 175°C	3	A	C	B	B	B	Pyrazolone

Masstone	1:19 Tint	Product Code Trade Name Color Index	FDA	Heat Stability	Light Fast Tint	Application Data					Comments
						Rubber	pPVC	PE	PP	PS	
		215-5652 Sunbrite® Red 53:1 PR 53:1	∅	575°F 300°C	2	A	C	A	A	A	Ba RLC - Standard Plastic Grade
		215-7616 Sunbrite® Red 53:1 PR 53:1	∅	575°F 300°C	2	A	C	A	A	A	Ba RLC - Controlled for Soluble Barium Content for Food and Toy Applications
		234-3955 Sunbrite® Red 48:1 PR 48:1	∅	550°F 290°C	5	A	A	A	A	B	Ba2B - Standard Dry
		226-5254 Fastogen® Super Red 254 PR 254	√	550°F 290°C	7	A	A	A	A	A	DPP Red
		235-7070 Sunbrite® Red 170 PR 170	∅	525°F 275°C	6	A	C	A	A	B	Napthol Opaque - Standard Dry
		234-0124 Sunbrite® Red 48:3 PR 48:3	∅	450°F 230°C	4	A	A	A	A	A	Sr 2B - Standard Dry - Fiber Grade
		211-4620 Sunbrite® Red 49:2 PR 49:2	∅	525°F 275°C	2	A	C	A	A	B	Ca Lithol
		235-7170 Sunbrite® Red 170 PR 170	∅	525°F 275°C	5	A	C	A	A	B	Napthol Transparent - Standard Dry
		228-0SGK Fastogen® Super Scarlet GK PR 207	√	575°F 300°C	8	A	A	A	A	A	Very yellow shade red quinacridone with excellent fastness properties, namely weather fastness
		234-0781 Sunbrite® Red 48:2 PR 48:2	∅	450°F 230°C	5	A	C	A	A	B	Ca2B - Standard Dry
		219-0125 Sunbrite® Red 57:1 PR 57:1	∅	465°F 240°C	4	A	C	A	A	B	Ca Lithol Rubline- Standard Plastics Lithol

Masstone	1:19 Tint	Product Code Trade Name Color Index	FDA	Heat Stability	Light Fast Tint	Application Data					Comments
						Rubber	pPVC	PE	PP	PS	
		219-3706 Sunbrite® Red 57:1 PR 57:1	Ø	465°F 240°C	4	A	C	A	A	B	Ca Lithol Rubline- Standard Plastics Lithol
		235-4586 Symuler® Fast Red 185 PR 185	Ø	450°F 230°C	3	A	A	A	A	B	Benzimidazolone - Durable weather fast red – extreme migration resistance
		228-0044 Quindo® Red 19 PV 19	√	575°F 300°C	8	A	A	A	A	A	Quinacridone Red - Bright MT vs. 0022
		225-2480 Sunbrite® Red 60:1 PR 60:1	Ø	500°F 260°C	4	A	A	A	A	A	Ba/Al Scarlet - Standard Product
		228-0022 Quindo® Red 19 PV 19	√	575°F 300°C	7-8	A	A	A	A	A	Quinacridone Red - Standard Product
		228-8673 Sunplast® G Red 19 PV 19	√	575°F 300°C	8	A	A	A	A	A	Quinacridone Red - SunPlast® G - Granules
		228-6655 Quindo® Magenta 122 PR 122	²√	575°F 300°C	8	A	A	A	A	A	Quinacridone Magenta - Dry of 8655
		228-8655 Sunplast® G Magenta 122 Gran PR 122	²√	575°F 300°C	8	A	A	A	A	A	Quinacridone Magenta - SunPlast® G - Granules - Slightly Softer & Blue vs. 0013
		228-CBR4 Fastogen® Super Magenta 122 PR 122	²√	575°F 300°C	8	A	A	A	A	A	Quinacridone Magenta - Bluer vs. 0013 Fiber Grade
		228-6725 Quindo® Magenta 202 PR 202	√	575°F 300°C	7	A	A	A	A	A	Quinacridone Magenta 202 - Opaque
		228-0130 Sunplast® G Magenta 122 PR 122	²√	575°F 300°C	8	A	A	A	A	A	Quinacridone Magenta - SunPlast® G - Granules - Slightly Softer & Yellow vs. 0013











Masstone	1:19 Tint	Product Code Trade Name Color Index	FDA	Heat Stability	Light Fast Tint	Application Data					Comments
						Rubber	pPVC	PE	PP	PS	
		228-0131 Sunplast® G Magenta 122 PR 122	√	575°F 300°C	8	A	A	A	A	A	Quinacridone Magenta - SunPlast® G - Granules - Fiber grade high chroma
		228-0013 Quindo® Magenta 122 PR 122	√	575°F 300°C	8	A	A	A	A	A	Quinacridone Magenta - Standard Dry
		228-6864 Sunplast® G Magenta 202 2B Gran PR 202	√	575°F 300°C	7	A	A	A	A	A	Quinacridone Magenta 202 - SunPlast® G - Granules - Low Pressure Rise
		229-6454 Perrindo® Maroon 179 PR 179	∅	575°F 300°C	7	A	A	A	A	A	Perylene Red - Standard Dry
		229-6424 Perrindo® Maroon 179 PR 179	∅	575°F 300°C	7	A	A	A	A	A	Perylene Red - Standard Dry
		228-8638 Quindo® Violet 19 PV 19	√	575°F 300°C	7-8	A	A	A	A	A	Quinacridone Violet - Slightly Strong & Red vs. 5199
		228-0933 Sunplast® G Violet 19 PV 19	√	575°F 300°C	7-8	A	A	A	A	A	Quinacridone Violet - Sunplast® G - Granules - Soft & Red vs. 5199
		228-5199 Quindo® Violet 19 PV 19	√	575°F 300°C	7-8	A	A	A	A	A	Quinacridone Violet - Standard Dry
		228-1158 Quindo® Violet 19 PV 19	√	575°F 300°C	7-8	A	A	A	A	A	Quinacridone Violet - Slightly Less Red vs. 5199
		229-4050 Perrindo® Violet 29 PV 29	∅	575°F 300°C	7	A	A	A	A	A	Perylene Violet - Standard Dry
		246-0505 Indofast® Violet 23 PV 23	∅	475°F 250°C	7-8	A	A	A	A	B	Dioxazine Violet - Standard Dry

Masstone	1:19 Tint	Product Code Trade Name Color Index	FDA	Heat Stability	Light Fast Tint	Application Data					Comments
						Rubber	pPVC	PE	PP	PS	
		260-5645 Palomar® Blue 60 PB 60	∅	575°F 300°C	7-8	A	A	A	A	A	Indanthrone Blue
		248-3669 Sunfast® Blue 15 PB 15	√	392°F 200°C	7-8	A	B	B	B	B	PCN RS Blue - Non Stabilized
		248-3745 Sunfast® Blue15:1 PB 15:1	√	575°F 300°C	7-8	A	A	A	A	A	PCN RS Blue - Stabilized - Standard Dry
		248-3720 Sunfast® Blue 15:1 PB 15:1	√	575°F 300°C	7-8	A	A	A	A	A	PCN RS Blue - Stabilized - Slightly Less Red than 3745
		248-3700 Sunfast® Blue 15:1 PB 15:1	√	575°F 300°C	7-8	A	A	A	A	A	PCN RS Blue - Stabilized - Slightly Less Red than 3745
		248-6920 Sunfast® Blue 15:1 PB 15:1	√	575°F 300°C	7-8	A	A	A	A	A	PCN RS Blue Hemi CI - Standard Dry - Slightly Green vs. 3745
		248-0061 Sunfast® Blue 15:1 PB 15:1	√	575°F 300°C	7-8	A	A	A	A	A	PCN RS Blue Mono CI - Standard Dry - Green vs. 3745
		249-A80P Sunfast® PA5380 PB 15:3	√	500°F 260°C	7	A	A	A	A	A	PCN GS Blue
		249-9812 Sunfast® Blue 15:3 PB 15:3	√	550°F 290°C	7-8	A	A	A	A	A	PCN GS Blue - Slightly Red vs. 1284 - Excellent Chroma
		249-1284 Sunfast® Blue 15:3 PB 15:3	√	550°F 290°C	7-8	A	A	A	A	A	PCN GS Blue - Standard Dry
		249-3450 Sunfast® Blue 15:4 PB 15:4	√	575°F 300°C	7-8	A	A	A	A	A	PCN GS Blue NCNF - Standard Dry

Masstone	1:19 Tint	Product Code Trade Name Color Index	FDA	Heat Stability	Light Fast Tint	Application Data					Comments
						Rubber	pPVC	PE	PP	PS	
		264-8142 Sunfast® Green 7 PG 7	√	575°F 300°C	7-8	A	A	A	A	A	PCN Green - Very Blue Shade - Standard Dry
		264-7414 Sunfast® Green 7 PG 7	√	575°F 300°C	7-8	A	A	A	A	A	PCN Green - Slightly Blue vs. 0414
		264-0414 Sunfast® Green 7 PG 7	√	575°F 300°C	7-8	A	A	A	A	A	PCN Green - Standard Dry
		264-7700 Sunfast® Green 7 PG 7	√	575°F 300°C	7-8	A	A	A	A	A	PCN Green - Yellow vs. 0414
		264-8735 Sunfast® Green 7 PG 7	√	575°F 300°C	7-8	A	A	A	A	A	PCN Green - Slightly Yellow vs. 0414
		264-770F Sunfast® Green 7 PG 7	√	575°F 300°C	7-8	A	A	A	A	A	PCN Green - Yellow vs. 0414 - Fiber grade
		264-7405 Sunfast® Green 7 PG 7	√	575°F 300°C	7-8	A	A	A	A	A	PCN Green - Standard Dry
		264-7036 Sunfast® Green 36 PG 36	∅	575°F 300°C	7-8	A	A	A	A	A	PCN Green - Very Yellow Shade



9 Cosmetic Grade Pigments for Plastics

Masstone	1:19 Tint	Product Code Trade Name Color Index	FDA	Heat Stability	Light Fast Tint	Application Data					Comments
						Rubber	pPVC	PE	PP	PS	
		C39-4433 SunCROMA™ FD&C Blue 1 Al Lake PB 78	FD&C	392°F 200°C	3	A	C	A	B	B	Food Lake - 12% Dye Content
		C69-4537 SunCROMA™ FD&C Yellow 5 Al Lake PY 100	FD&C	475°F 250°C	3	A	C	A	A	A	Food Lake - 38% Dye Content
		C70-5270 SunCROMA™ FD&C Yellow 6 Al Lake PY 104	FD&C	525°F 275°C	2	A	C	A	A	A	Food Lake -40% Dye Content
		C37-6340 SunCROMA™ FD&C Red 40 Al Lake PY 273	FD&C	392°F 200°C	2	A	C	A	A	B	Food Lake - 38% Dye Content
		C19-003 SunCROMA™ D&C Red 7 CA Lake	D&C	425°F 220°C	3	A	C	A	A	B	Ca Lake - 60% Pigment



Masstone	1:19 Tint	Color Index	Trade Name Product Code	Pigment Content	Carrier Content		Light Fastness 1-8 Scale 1:19 Tint	Heat Stability CIE Lab DE<2 @ 5 Minutes °C/°F
					PE Wax	EVA Wax		
		PY 17	Predisol® PE Yellow 17				5-6	200°C/392°F *
			L75-1331	50 %	50 %			
		PY 155	Predisol® PE Yellow 155				7	260°C/500°F
			L79-P255	60 %	40 %			
		PY 14	Predisol® PE Yellow 14				3-4	200°C/392°F *
			L74-1357	50 %	50 %			
		PY 62	Predisol® PE Yellow 62				5	250°C/475°F
			L62-P204	60 %	40 %			
		PY 13	Predisol® PE Yellow 13				5	200°C/392°F *
			L75-1349	50 %	50 %			
		PY 95	Predisol® PE Yellow 95				7	300°C/575°F
			L71-P495	60 %	40 %			
		PY 83	Predisol® PE Yellow 83				4-5	200°C/392°F *
			L75-2377	50 %	50 %			
			L75-P483	60 %	40 %			
		PY 110	Predisol® PE Yellow 110				8	300°C/575°F
			L79-P408	60 %	40 %			
		PO 16	Predisol® PE Orange 16				3	200°C/392°F *
			L76-P282	50 %	50 %			
		PR 53:1	Predisol® PE Red 53:1				2	300°C/575°F
			L15-P253	60 %	40 %			
			L15-1210	55 %	45 %			
		PR 254	Predisol® PE Red 254				7	290°C/550°F
			L26-P254	60 %	40 %			
		PR 170	Predisol® PE Red 170				6	275°C/525°F
			L35-P218	60 %	40 %			
		PR 48:1	Predisol® PE Red 48:1				5	290°C/550°F
			L34-P481	60 %	40 %			
		PR 48:2	Predisol® PE Red 48:2				5	220°C/425°F
			L34-P248	60 %	40 %			
			L34-1209	50 %	50 %			
		PR 176	Predisol® PE Red 176				6-7	270°C / 515°F
			L35-P276	60 %	40 %			
		PR 122	Predisol® PE Red 122				8	300°C / 575°F
			L28-P213	60 %	40 %			
		PV 23	Predisol® PE Violet 23				7-8	250°C / 475°F
			L46-4568	50 %	50 %			
			L46-4569	50 %	50 %			
		PB 15:1	Predisol® PE Blue 15:1				7-8	300°C / 575°F
			L48-P205	60 %	40 %			
			L48-1206	55 %	45 %			
			L48-3747	55 %	45 %			
			L48-P409	60 %	40 %			

11 Technical Preparations for Plastics

Masstone	1:19 Tint	Color Index	Trade Name Product Code	Pigment Content	Carrier Content		Light Fastness 1-8 Scale 1:19 Tint	Heat Stability CIE Lab DE<2 @ 5 Minutes °C/°F
					PE Wax	EVA Wax		
■	■	PB 15:3	Predisol® PE Blue 15:3				7	290°C / 550°F
			L49-0714	55 %	45 %			
			L49-P225	50 %	50 %			
■	■	PB 15:4	Predisol® PE Blue 15:4				7-8	300°C / 575°F
			L49-P226	50 %	50 %			
■	■	PG 7	Predisol® PE Green 7				7-8	300°C / 575°F
			L64-1207	55 %	45 %			
			L64-3107	50 %	50 %			
			L64-P264	50 %	50 %			
■	■	PG 36	Predisol® PE Green 7				7-8	300°C / 575°F
			L64-P236	60 %	40 %			
■	■	PBk 7	Predisol® PE Black 7				7-8	290°C / 550°F
			L47-9000	60 %	40 %			
			L47-P202	60 %	40 %			
■	■	PBk 31	Predisol® PE Black 31 (Perylene)				7	260°C / 500°F
			L29-P206	60 %	40 %			

*: Diarylides DCB Based pigment maximum recommended processing temp should not exceed 200°C





Sun Chemical - Global Success in a World of Color and Metallic Effects

Sun Chemical Performance Pigments has been in the color and metallic effects business for over 100 years. Our leading-edge technology is unsurpassed as we continue our commitment to solve the color and metallic effects issues of today and develop new solutions for the future. Headquartered in Cincinnati, Ohio, Sun Chemical Performance Pigments is a division of Sun Chemical Corporation.

With annual revenues of more than \$3.5 billion, Sun Chemical Corporation is the world's largest producer of printing inks and pigments. We also are a leading provider of materials and services to the cosmetics, building materials, photovoltaic, packaging, publications, coatings, plastics and other industrial markets. Sun Chemical has a worldwide network of more than 250 locations that provide customers local service with a global perspective.

To learn more about our pigments, contact your local Sun Chemical representative.

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