

who benefits from our superior pigments  
for plastics applications?

**you do.**

working for you



The broadest  
range of color for  
your plastics  
colorant needs.



Sun Chemical Performance Pigments is a world 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 shades, chemistries and dispersions.

Illustrated in this brochure is the main product line from Sun Chemical organic pigments recommended for plastics. However, the list is not all inclusive and there may be other grades available to better suit your requirements.

Contact your local Sun Chemical sales representative to answer any further questions you may have about our products.

## Trade Name Information

**Benda-Lutz** - Aluminum and goldbronze effects.

**Fanchon** - High performance yellow and orange 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.

**Sunbrite** - Classical azo pigments for plastics.

**SunCROMA** - D&C and FD&C pigments for plastics.

**Sunfast** - Phthalocyanine pigments for plastics.

**SunGEM XST** - Glass-based pearlescent effects.

**SunMICA** - Natural untreated pearlescent micas.

**SunMICA LUX** - Synthetic mica based pearlescent effects.

**SunPlast** - Free-flowing, low-dusting, microgranular dry color.

*Solutions. <sup>Tailor-Made.</sup>*

We deliver solutions that are tailor-made to your needs through our broad portfolio of products and technologies.



## Technical Data and Physical Properties

### 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% TiO<sub>2</sub> at 5 minute intervals for each temperature level. CIE Lab Delta E ≤ 2 from the lowest molding temperature was taken as the cut off point in establishing the maximum temperature quoted unless otherwise stated.

### Light Fastness:

Light Stability Results are based on Xenon Lamp exposure in accordance with standard methods. The light fastness rating (see below) is derived by assessment against the fade of Blue Wool standards exposed at the same time (ISO 105 B02). Does not imply weatherfast stability.

### Light Fastness Scale:

1. Poor
2. Moderate
3. Below Average
4. Average
5. Above Average
6. Very Good
7. Excellent
8. Outstanding

### Application Data

- A: Generally good properties
- B: Possible heat stability problems
- C: Possible migration problems
- D: Possible migration of carrier resins

### FDA Status

- ∅ : No
- √ : Yes
- <sup>1</sup> = 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).
- <sup>2</sup> = Please review FCN 1311 for details condition and use restrictions.
- <sup>3</sup> = 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.
- <sup>4</sup> = For use at levels not to exceed 1.0% 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).
- <sup>5</sup> = Compliant to 21 CFR 177.2600.

## Delivering Quality, Innovation and Service

The employees at Sun Chemical Performance Pigments are personally committed to being the customers' partner of choice. There is never any question as to the priorities in executing each day's business because the employees make every operating decision by implementing the following four key initiatives:

### Safety:

Putting safety first in everything the employee does.

### People Development:

Continually improving the skills of Sun Chemical's people.












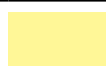








### Customer Value System:

Creating value and satisfaction for our customers through profitable and sustainable growth, continuous improvement of our processes, and by supplying products that consistently meet customers' specifications.

### Productivity and Six Sigma:





















Continually improving the effectiveness of the Quality Management System through ISO 9001 Registration, Productivity Initiatives and Six Sigma.



Masstone	1:19 Tint	Colour Index	Trade Name	Product Code	Description	FDA	Application Data										Density g/cc	Light Fastness Blue Wool Scale 1-8 Scale 1:19 Tint	Heat Stability CIE Lab DE °C/°F
							Rubber 176°C/350°F	pPVC 137°C/280°F	LDPE 137°C/280°F	PP 215°C/420°F	HDPE 215°C/420°F	Styrenics 215°C/420°F	Nylon 6 260°C/500°F	PC 260°C/500°F	PET 260°C/500°F				
		Yellow 184	Fanchon	279-9184	Bismuth Vanadate	∅	A	A	A	A	A	A	A	B	B	5.54	7-8	290°C / 550°F	
		Yellow 138	Fanchon	279-0138	Quinophthalone Yellow – Slightly greener than 279-5138	√	A	C	A	A	A	A	–	A	B	1.93	7	260°C / 500°F	
				279-5138	Quinophthalone Yellow	√	A	C	A	A	A	A	–	A	B	2.01	7	260°C / 500°F	
		Yellow 151	Fanchon	271-5151	Benzimidazolone Yellow	∅	A	C	A	A	A	–	A	A	1.59	7	290°C / 550°F		
		Yellow 17*	Sunbrite	275-0023	Diarylide AAOA Standard Plastics Grade	∅	A	C	A	B	B	B	–	–	–	1.4	5-6	200°C / 392°F	
				475-0586	Presscake	∅	A	C	A	B	B	B	–	–	–	1.39	3	200°C / 392°F	
				Predisol PE	L75-1331	50% pigment 50% PE	∅	–	–	A	B	B	–	–	–	–	1.11	5-6	200°C / 392°F
		Yellow 154	Fanchon	271-5154	Benzimidazolone Yellow	∅	A	C	A	B	A	B	–	–	–	1.61	7-8	205°C / 400°F	
		Yellow 155	Sunbrite	279-0155	Disazo Condensation H / S @ DE 3	∅	A	C	C	A	A	A	–	–	–	1.41	7	275°C / 525°F	
				Predisol PE	L79-P255	60% pigment 40% PE	∅	–	–	A	A	A	–	–	–	–	1.41	7	275°C / 525°F
		Yellow 14*	Sunbrite	274-5126	Diarylide AAOT Standard Plastics Grade	∅	A	C	A	B	B	B	–	–	–	1.39	3-4	200°C / 392°F	
				274-3954	Diarylide AAOT Standard Plastics Grade	∅	A	C	A	B	B	B	–	–	–	1.38	3-4	200°C / 392°F	
				Predisol PE	L74-1357	50% pigment 50% PE	∅	–	–	A	B	B	–	–	–	–	1.13	3-4	200°C / 392°F
		Yellow 150	Fanchon	279-0150	Ni Azo Yellow	∅	A	A	A	A	A	A	A	A	1.84	8	300°C / 575°F		
		Yellow 13*	Sunbrite	275-0049	Diarylide AAMX Standard Plastics Grade	∅	A	C	A	B	B	B	–	–	–	1.38	5	200°C / 392°F	
				275-9849	Diarylide AAMX Standard Plastics Grade	∅	A	C	A	B	B	B	–	–	–	1.38	5	200°C / 392°F	
				Predisol PE	L75-1349	50% pigment 50% PE	∅	–	–	A	B	B	–	–	–	–	1.16	5	200°C / 392°F
		Yellow 62	Sunbrite	262-3562	Ca Lake Mono Azo Yellow H / S @ DE 3	∅	A	A	A	A	A	B	–	–	–	1.59	5	230°C / 445°F	
				Predisol PE	L62-P206	60% pigment 40% PE	∅	–	–	A	A	A	–	–	–	–	NT	5	230°C / 445°F











Masstone	1:19 Tint	Colour Index	Trade Name	Product Code	Description	FDA	Application Data										Density g/cc	Light Fastness Blue Wool Scale 1-8 Scale 1:19 Tint	Heat Stability CIE Lab DE °C/°F
							Rubber 176°C/350°F	pPVC 137°C/280°F	LDPE 137°C/280°F	PP 215°C/420°F	HDPE 215°C/420°F	Styrenics 215°C/420°F	Nylon 6 260°C/500°F	PC 260°C/500°F	PET 260°C/500°F				
		Yellow 180	Fanchon	271-5180	Benzimidazolone Yellow	√4	A	A	A	A	A	A	B	A	B	1.27	7-8	300°C / 575°F	
			Predisol PE	L71-P280	60% pigment 40% PE	√4	-	-	A	A	A	-	-	-	-	NT	7	300°C / 575°F	
		Yellow 95	Predisol EVA	L71-P495	Disazocondensation Yellow 60% pigment 40% EVA	∅	A	-	A	A	A	-	-	-	-	1.04	7	300°C / 575°F	
		Yellow 139	Fanchon	279-0139	Isoindoline Yellow H / S @ DE 3	∅	A	A	A	A	A	A	-	-	-	1.65	6-7	250°C / 480°F	
				479-8276	Fanchon Yellow 139 P / C	∅	A	A	A	A	A	A	-	-	-	1.76	6	250°C / 480°F	
		Yellow 83*	Sunbrite	275-0570	Diarylide AADMCA Standard Plastics Grade	∅	A	C	A	B	B	A	-	-	-	1.47	5-6	200°C / 392°F	
				275-4570	Diarylide AADMCA Standard Plastics Grade	∅	A	C	A	B	B	A	-	-	-	1.47	5-6	200°C / 392°F	
			Predisol	L75-2377	50% pigment 50% PE	∅	-	-	A	A	A	-	-	-	-	1.13	4-5	200°C / 392°F	
				L75-P283	60% pigment 40% PE	∅	-	-	A	A	A	-	-	-	-	NT	4-5	200°C / 392°F	
				L75-P483	60% pigment 40% EVA	∅	A	-	A	A	A	-	-	-	-	1.19	4-5	200°C / 392°F	
		Yellow 110	Fanchon	279-7111	Isoindolinone FDA Yellow	√1	A	A	A	A	A	A	-	-	-	1.82	8	290°C / 550°F	
			Predisol	L79-P408	60% pigment 40% EVA	∅	A	-	A	A	A	-	-	-	NT	8	290°C / 550°F		
		Yellow 181	Fanchon	271-0181	Benzimidazolone Yellow	√	A	A	A	A	A	A	-	-	-	1.45	8	300°C / 575°F	
		Orange 16*	Predisol PE	L76-P282	50% pigment 50% PE	∅	-	-	A	B	B	-	-	-	-	1.10	3	200°C / 392°F	
		Orange 43	Fanchon	276-1430	Perinone - Excellent weather fastness	∅	A	C	A	A	A	A	A	A	-	1.6	8	290°C / 550°F	
		Orange 64	Fanchon	271-6430	Benzimidazolone Orange	√1	A	A	A	A	A	A	-	B	-	1.8	7	290°C / 550°F	
		Orange 13*	Sunbrite	276-0203	Pyrazolone Orange – EU	∅	A	C	A	B	B	-	-	-	-	1.43	5	175°C / 350°F	
				276-2384	Pyrazolone Orange – NAFTA	∅	A	C	A	B	B	-	-	-	-	1.43	5	175°C / 350°F	
		Orange 46	Sunbrite	212-7152	Ba Azo Orange - Standard Dry	∅	A	C	A	B	A	A	-	-	-	1.74	2	300°C / 575°F	
		Red 38*	Sunbrite	236-0038	Pyrazolone	√5	A	C	B	B	-	B	-	-	-	1.75	3	175°C / 350°F	

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

Masstone	1:19 Tint	Colour Index	Trade Name	Product Code	Description	FDA	Application Data									Density g/cc	Light Fastness Blue Wool Scale 1-8 Scale 1:19 Tint	Heat Stability CIE Lab DE °C/°F
							Rubber 176°C/350°F	pPVC 137°C/280°F	LDPE 137°C/280°F	PP 215°C/420°F	HDPE 215°C/420°F	Styrenics 215°C/420°F	Nylon 6 260°C/500°F	PC 260°C/500°F	PET 260°C/500°F			
		Red 53:1	Sunbrite	215-5652	Ba RLC - Standard Plastic Grade	Ø	A	C	A	B	A	A	-	-	-	1.78	2	300°C / 575°F
				215-7616	Ba RLC - Controlled for Soluble Barium	Ø	A	C	A	B	A	A	-	-	-	1.78	2-3	300°C / 575°F
				415-0619	Sunbrite Red 53:1 (P / C)	Ø	A	C	A	B	A	A	-	-	-	1.75	1-2	300°C / 575°F
			Predisol PE	L15-P253	60% pigment 40% PE	Ø	-	-	A	A	A	-	-	-	-	1.27	2	300°C / 575°F
				L15-P222	60% pigment 40% PE	Ø	-	-	A	A	A	-	-	-	-	1.1	2	300°C / 575°F
				L15-1210	55% pigment 45% PE	Ø	-	-	A	A	A	-	-	-	1.22	2	300°C / 575°F	
		Red 177	Sunbrite	227-0177	Anthraquinone - Opaque	√1	A	C	A	A	A	A	A	A	1.67	7	290°C / 550°F	
				227-5177	Anthraquinone - Transparent	√1	A	C	A	A	A	A	A	A	A	1.54	7	300°C / 575°F
		Red 48:1	Sunbrite	234-3955	Ba2B	Ø	A	A	A	A	A	B	-	-	-	2.02	5	290°C / 550°F
		Red 254	Sunbrite	226-6254	DPP Red	√1	A	A	A	A	A	A	-	-	-	1.75	7	290°C / 550°F
			Predisol PE	L26-P254	60% pigment 40% PE	√1	-	-	A	A	A	-	-	-	-	1.35	7	290°C / 550°F
		Red 48:3	Sunbrite	234-0124	Sr 2B - Fiber Grade H / S @ DE 3	Ø	A	C	A	A	A	A	-	-	-	1.74	4	250°C / 480°F
		Red 48:2	Sunbrite	234-0781	Ca2B - Standard Dry Standard Plastics Grade H / S @ DE 3	Ø	A	C	A	A	A	B	-	-	-	1.73	5	230°C / 450°F
				234-0123	Ca2B - Fiber Grade H / S @ DE 3	Ø	A	C	A	A	A	B	-	-	-	NT	5	230°C / 450°F
			Predisol PE	L34-1209	50% pigment 50% PE	Ø	-	-	A	A	A	-	-	-	-	1.16	5	230°C / 450°F
				L34-P202	60% pigment 40% PE	Ø	-	-	A	A	A	-	-	-	-	1.1	5	230°C / 450°F
		Red 170	Sunbrite	235-7070	Naphthol Opaque	Ø	A	C	A	A	A	B	-	-	-	1.4	6	275°C / 525°F
				235-7170	Naphthol Transparent	Ø	A	C	A	A	A	B	-	-	-	1.35	5	275°C / 525°F
			Predisol PE	L35-P218	60% pigment 40% PE	Ø	-	-	A	A	A	-	-	-	-	1.1	6	275°C / 525°F
				L35-P271	60% pigment 40% PE	Ø	-	-	A	A	A	-	-	-	-	1.0	6	275°C / 525°F
		Red 49:2	Sunbrite	211-4620	Ca Lithol Red	Ø	A	C	A	A	A	B	-	-	-	1.52	2	275°C / 525°F
		Red 207	Fastogen Super	228-0SGK	Very yellow shade red quinacridone with excellent fastness properties, namely weather fastness	Ø	A	A	A	A	A	A	A	A	1.6	8	300°C / 575°F	
		Red 57:1	Sunbrite	219-0125	Ca Lithol Rubine - Fiber Grade	Ø	A	C	A	A	A	B	-	-	-	1.66	4	240°C / 465°F

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							Rubber 176°C/350°F	pPVC 137°C/280°F	LDPE 137°C/280°F	PP 215°C/420°F	HDPE 215°C/420°F	Styrenics 215°C/420°F	Nylon 6 260°C/500°F	PC 260°C/500°F	PET 260°C/500°F				
		Red 60:1	Sunbrite	225-2480	Ba / Al Scarlet	Ø	A	A	A	A	A	A	-	-	-	1.96	4	260°C / 500°F	
		Red 176	Predisol PE	L35-P276	60% pigment 40% PE	Ø	-	-	A	A	A	-	-	-	-	1.1	6-7	270°C / 515°F	
		Red 19	Quindo	228-0022	Quinacridone Red - Standard Plastics Grade	√	A	A	A	A	A	A	B	A	B	1.49	7-8	300°C / 575°F	
				228-0044	Quinacridone Red - Bright MT vs. 228-0022	√	A	A	A	A	A	A	A	B	A	B	1.56	8	300°C / 575°F
			SunPlast G	228-8673	Quinacridone Red - SunPlast G - Granules	√	A	A	A	A	A	A	A	B	A	B	1.49	8	300°C / 575°F
			Predisol PE	L28-P244	60% pigment 40% PE	√	-	-	A	A	A	-	-	-	-	-	1.1	6-7	300°C / 575°F
		Violet 19	SunPlast G	228-0933	Quinacridone Violet - SunPlast G - Granules - Soft & Red vs. 228-5199	√	A	A	A	A	A	A	B	A	B	1.33	7-8	300°C / 575°F	
			Quindo	228-5199	Quinacridone Violet - Standard Plastics Grade	√	A	A	A	A	A	A	B	A	B	1.58	7-8	300°C / 575°F	
				228-1158	Quinacridone Violet - Slightly Less Red vs. 228-5199	√	A	A	A	A	A	A	B	A	B	1.53	7-8	300°C / 575°F	
		Magenta 122	SunPlast G	228-8655	Quinacridone Magenta - SunPlast G - Granules - Easier dispersing & Blue vs. 228-0013	√2	A	A	A	A	A	A	B	A	B	1.45	8	300°C / 575°F	
			Fastogen Super	228-CBR4	Quinacridone Magenta - Bluer vs. 228-0013 Fiber Grade	√2	A	A	A	A	A	A	B	A	B	1.48	8	300°C / 575°F	
			SunPlast G	228-0131	Quinacridone Magenta - SunPlast G - Granules - Fiber grade - High chroma	√2	A	A	A	A	A	A	B	A	B	1.43	8	300°C / 575°F	
			Quindo	228-0013	Quinacridone Magenta - Standard Plastics Grade	√2	A	A	A	A	A	A	B	A	B	1.45	8	300°C / 575°F	
			Predisol PE	L28-P213	60% pigment 40% PE	√2	-	-	A	A	A	-	-	-	-	1.16	7	300°C / 575°F	
		Magenta 202	Quindo	228-6725	Quinacridone Magenta 202 - Opaque	√	A	A	A	A	A	A	A	A	A	1.67	7-8	300°C / 575°F	
			SunPlast G	228-6864	Quinacridone Magenta 202 - SunPlast G - Granules - Fiber Grade	√	A	A	A	A	A	A	A	A	A	1.62	7	300°C / 575°F	
		Red 179	Perrindo	229-8828	Perylene Red - Standard Plastics Grade	√	A	A	A	A	A	A	A	A	A	1.57	7	300°C / 575°F	

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							Rubber 176°C/350°F	pPVC 137°C/280°F	LDPE 137°C/280°F	PP 215°C/420°F	HDPE 215°C/420°F	Styrenics 215°C/420°F	Nylon 6 260°C/500°F	PC 260°C/500°F	PET 260°C/500°F				
		Violet 29	Perrindo	229-4050	Perylene Violet - Standard Plastics Grade	Ø	A	A	A	A	A	A	A	A	A	1.74	7	300°C / 575°F	
		Violet 23	Indofast	246-0505	Dioxazine Violet - Standard Plastics Grade	Ø	A	A	A	A	A	B	B	B	1.5	7-8	250°C / 475°F		
			Predisol PE	L46-4568	50% pigment 50% PE	Ø	-	-	A	A	A	-	-	-	-	1.13	7-8	250°C / 475°F	
				L46-4569	50% pigment 50% PE	Ø	-	-	A	A	A	-	-	-	-	-	1.13	7-8	250°C / 475°F
		Blue 60	Palomar	260-5645	Indanthrone Blue	Ø	A	A	A	A	A	B	B	B	1.5	7-8	300°C / 475°F		
		Blue 15:0	Sunfast	248-3669	PCN RS Blue - Non Stabilized	√	A	B	B	B	B	-	-	-	1.7	7-8	200°C / 392°F		
		Blue 15:1	Sunfast	248-3745	PCN RS Blue - Stabilized - Standard Plastics Grade	√	A	C	A	A	A	B	B	B	1.62	7-8	300°C / 575°F		
				248-3720	PCN RS Blue - Stabilized - Slightly Less Red than 248-3745	√	A	C	A	A	A	A	B	B	B	1.6	7-8	300°C / 575°F	
				248-3700	PCN RS Blue - Stabilized - Slightly Less Red than 248-3745	√	A	C	A	A	A	A	A	A	A	1.6	7-8	300°C / 475°F	
				248-380F	PCN RS Blue - Stabilized - Fiber Grade	√	A	C	A	A	A	A	B	B	B	NT	7-8	300°C / 575°F	
				248-6920	PCN RS Blue Hemi CI - Slightly Green vs. 248-3745	√	A	C	A	A	A	A	A	A	A	1.62	7-8	300°C / 575°F	
				248-0061	PCN RS Blue Mono CI - Green vs. 248-3745	√	A	A	A	A	A	A	A	A	A	1.7	7-8	300°C / 575°F	
			Predisol PE	L48-P205	60% pigment 40% PE	√	-	-	A	A	A	-	-	-	-	1.14	7-8	300°C / 575°F	
				L48-1206	55% pigment 45% PE	√	-	-	A	A	A	-	-	-	-	1.21	7-8	300°C / 575°F	
				L48-3747	55% pigment 45% PE	√	-	-	A	A	A	-	-	-	-	1.14	7-8	300°C / 575°F	
				L48-P215	65% pigment 35% PE	√	-	-	A	A	A	-	-	-	-	1.1	7-8	300°C / 575°F	













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							Rubber 176°C/350°F	pPVC 137°C/280°F	LDPE 137°C/280°F	PP 215°C/420°F	HDPE 215°C/420°F	Styrenics 215°C/420°F	Nylon 6 260°C/500°F	PC 260°C/500°F				PET 260°C/500°F	
Blue 15:3			Sunfast	249-A80P	PCN Green Shade Blue	√	A	A	A	A	A	A	B	B	B	1.6	7-8	300°C / 575°F	
				249-908P	PCN Green Shade Blue	√	A	A	A	A	A	A	A	B	B	B	1.6	7-8	300°C / 575°F
				249-7900	PNC Green Shade Blue	√	A	A	A	A	A	A	A	A	A	A	1.77	7-8	300°C / 575°F
				249-790F	PNC Green Shade Blue - Fiber Grade	√	A	A	A	A	A	A	A	A	A	A	1.69	7-8	300°C / 575°F
			249-1284	PCN GS Blue - Standard Plastics Grade	√	A	A	A	A	A	A	A	A	A	A	1.64	7-8	290°C / 550°F	
			Predisol PE	L49-0714	55% pigment 45% PE	√	-	-	A	A	A	-	-	-	-	-	1.25	7	300°C / 575°F
				L49-P213	55% pigment 45% PE	√	-	-	A	A	A	-	-	-	-	-	1.1	7	300°C / 575°F
				L49-P225	50% pigment 50% PE	√	-	-	A	A	A	-	-	-	-	-	1.25	7	300°C / 575°F
L49-P265	65% pigment 35% PE	√		-	-	A	A	A	-	-	-	-	-	1.1	7	300°C / 575°F			
Blue 15:4			Sunfast	249-3450	PCN GS Blue NCNF	√	A	A	A	A	A	A	A	A	1.61	7-8	300°C / 575°F		
			Predisol PE	L49-P226	50% pigment 50% PE	√	-	-	A	A	A	-	-	-	-	1.25	7	300°C / 575°F	
			L49-P227	50% pigment 50% PE	∅	-	-	A	A	A	-	-	-	-	NT	7	300°C / 575°F		
Green 7			Sunfast	264-8142	PCN Green - Very Blue Shade	√	A	A	A	A	A	A	A	A	2.11	7-8	300°C / 575°F		
				264-8735	PCN Green - Slightly Yellow vs. 264-0414	√	A	A	A	A	A	A	A	A	A	2.24	7-8	300°C / 575°F	
				264-0414	PCN Green - Standard Plastics Grade	√	A	A	A	A	A	A	A	A	A	2.3	7-8	300°C / 575°F	
				264-7700	PCN Green - Yellow vs. 264-0414 - Standard Plastics Grade	√	A	A	A	A	A	A	A	A	A	2.16	7-8	300°C / 575°F	
				264-770F	PCN Green - Yellow vs. 264-0414 - Fiber grade	√	A	A	A	A	A	A	A	A	A	2.05	7-8	300°C / 575°F	
				264-7405	PCN Green	√	A	A	A	A	A	A	A	A	A	2.0	7-8	300°C / 575°F	
			Predisol PE	L64-1207	55% pigment 45% PE	√	-	-	A	A	A	-	-	-	-	-	1.28	7-8	300°C / 575°F
				L64-3107	50% pigment 50% PE	√	-	-	A	A	A	-	-	-	-	-	1.28	7-8	300°C / 575°F
				L64-P223	70% pigment 30% PE	√	-	-	A	A	A	-	-	-	-	-	NT	7-8	300°C / 575°F
				L64-P264	50% pigment 50% PE	√	-	-	A	A	A	-	-	-	-	-	1.4	7-8	300°C / 575°F
				L64-P407	65% pigment 35% EVA	√	-	-	A	A	A	-	-	-	-	-	NT	7-8	300°C / 575°F

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

Masstone	1:19 Tint	Colour Index	Trade Name	Product Code	Description	FDA	Application Data										Density g/cc	Light Fastness Blue Wool Scale 1-8 Scale 1:19 Tint	Heat Stability CIE Lab DE °C/°F
							Rubber	pPVC	LDPE	PP	HDPE	Styrenics	Nylon 6	PC	PET				
Green 36			Sunfast	264-7036	PCN Green - Very Yellow Shade	Ø	A	A	A	A	A	A	A	A	A	2.5	7-8	300°C / 575°F	
			Predisol PE	L64-P236	60% pigment 40% PE	Ø	-	-	A	A	A	-	-	-	-	1.28	7-8	300°C / 575°F	
Black 7			Predisol PE	L47-9000	Carbon Black, 45% pigment 55% PE		-	-	A	A	A	-	-	-	1.2	7-8	290°C / 550°F		
				L47-9052	Carbon Black, 45% pigment 55% PE		-	-	A	A	A	-	-	-	-	NT	7-8	290°C / 550°F	
Black 31			Predisol PE	L29-P206	Perylene Black, 60% pigment 40% PE	Ø	-	-	A	A	A	-	-	-	1.12	7	260°C / 500°F		



Masstone	1:19 Tint	Colour Index	Trade Name	Product Code	Description	FDA	Application Data										Density g / cc	Light Fastness Blue Wool Scale 1-8 Scale 1:19 Tint	Heat Stability CIE Lab DE °C / °F
							Rubber 176°C / 350°F	pPVC 137°C / 280°F	LDPE 137°C / 280°F	PP 215°C / 420°F	HDPE 215°C / 420°F	Styrenics 215°C / 420°F	Nylon 6 260°C / 500°F	PC 260°C / 500°F	PET 260°C / 500°F				
		Yellow 100	SunCROMA	C69-4537	FD&C Yellow 5 Al Lake	√	A	C	A	A	-	A	-	-	-	N / D	3	250°C / 475°F	
		Yellow 104	SunCROMA	C70-5270	FD&C Yellow 6 Al Lake	√	A	C	A	A	-	A	-	-	-	N / D	2	275°C / 525°F	
		Red 273	SunCROMA	C37-6340	FD&C Red 40 Al Lake	√	A	C	A	A	-	B	-	-	-	N / D	2	200°C / 392°F	
		Red 57:1	SunCROMA	C19-003	D&C Red 7 Ca Lake	√	A	C	A	A	B	B	-	-	-	N / D	3	220°C / 425°F	
		Blue 78	SunCROMA	C39-4433	FD&C Blue 1 Al Lake	√	A	C	A	B	-	B	-	-	-	N / D	3	200°C / 392°F	

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

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## Benda-Lutz Provides Brilliant Results and Uncompromised Details

Brilliant results are usually the sum of perfect details. Since 1910, Benda-Lutz has been the brand synonymous with the highest quality ingredients for plastics and engineering polymers.

We tailor solutions to bring the latest technology to market. With 100 years of experience, and a depth of resources from which to draw, we have the people, knowledge and products to make any project a success. We are constantly working to deliver quality, service and innovation to our clients worldwide.

Benda-Lutz Brands	Leafing	Non-leafing	METALLIC	MAXAL		COMPAL	GOLDBRONZE	Stabilized GOLDBRONZE
Type of Metal	Al	Al	Al	Al		Al	Cu/Zn Alloy	Cu/Zn Alloy
Carrier	Mineral Oil	Mineral Oil	Mineral Oil	Mineral Oil	DOA Plasticizer	PE Wax	Mineral Oil	Mineral Oil
Applications								
Rubber	A	A	A	A	A	A	B	A
PVC	-	-	-	-	A	-	B	A
LDPE	A	A	A	A	-	A	B	A
PP	A	A	A	A	-	A	-	A
HDPE	A	A	A	A	-	A	-	A
Styrenics	A	A	A	A	-	A	-	A
Nylon 6	B	B	B	B	B	B	-	B
PC	B	B	B	B	B	B	-	B
PET	B	B	B	B	B	B	-	B

A: Suitable  
B: Possible heat stability problems/limited suitability  
-: Not recommended

Mineral Oil = Paraffin Oil for Food Contact  
DOA = Di octyl adipate  
PE Wax = Polyethylene wax

**Benda-Lutz Aluminium Pastes:**

A wide range of metallic effects for plastics applications. They are most commonly used in masstone applications for their industry leading opacity and smooth patina finish.

**Benda-Lutz METALLIC:**

A delicate balance between sparkle, brilliance and opacity. These non-leafing aluminium flakes are brighter than standard grades and are designed for use in tinted systems allowing for unlimited colored metallic effects.

**Benda-Lutz MAXAL:**

These non-leafing, lenticular aluminium pastes provide the highest level of metallic brilliance and travel for plastics. They are produced via sophisticated milling processes yielding narrow particle size distributions and polished flake surfaces.

**Benda-Lutz COMPAL:**

Solid aluminium pellet preparations designed for an extensive range of aesthetic and functional plastics applications. They provide superior brilliance, sparkle and opacity in a non-dusting, non-hazardous and low VOC delivery form with improved shelf life.

**Benda-Lutz GOLDBRONZE:**

Premium flake pigments made from copper or copper-zinc alloys. The portfolio consists of a variety of particle sizes offered in standard shades of rich gold, rich pale gold, pale gold and pure copper.

**Benda-Lutz STABILIZED GOLDBRONZE:**

Standard untreated goldbronze powders are limited by their relatively low temperature stability (maximum temperature = 180 °C). Based on leading encapsulation technology, Benda-Lutz STABILIZED GOLDBRONZE pigments are characterized by superior temperature stability and chemical resistance. This novel inorganic encapsulation methodology provides the necessary temperature stability (maximum temperature = 280 °C) for expanded compatibility with a wide range of polymers.



Add eye-catching shimmer to your products for more appeal.



## Pearlescent Effect Pigments

Sun Chemical pearlescent effect pigments add depth, shimmer, sparkle and provide exceptional styling possibilities. This line offers a significant selection of effects for batch-to-batch color consistency with a wide range of particle sizes. We can work with you to optimize the effect pigment selection to meet your exact color and application needs.

Sun Chemical pearlescent pigments can deliver a variety of striking effects, from the silky satin of SunMICA to the brilliant sparkle effect of SunGEM XST. Our portfolio of effect pigments enables designers to create blends with absorption pigments as well. Our pearlescent pigments are suitable for most plastics applications and engineering polymers.

### SunMICA

SunMICA special effect pigments consist of thin natural mica coated with optical layers of titanium dioxide and / or iron oxide. Through precise control of light reflection and refraction, SunMICA offers pure silver-white, interference color, gold and metallic luster effects.

### SunMICA FUSE

The SunMICA FUSE Series delivers unique microsphere geometry allowing for higher throughput, more complete pigment dispersion and substantially faster cleanout. In addition, the FUSE Series provides superior mixing and makes the pearlescent pigments less susceptible to breakage.

### SunMICA LUX

SunMICA LUX utilizes ultra smooth, optically pure synthetic mica flakes to produce the purest, cleanest whites and most lustrous interference colors. This unique material does not contain any iron or heavy metal pigments that can detract from the premium appearance. SunMICA LUX delivers the market's best pearlescent white effects.

### SunGEM XST

SunGEM XST effect pigments are based on ultra smooth glass platelets coating with titanium dioxide. They are exceptionally transparent making them ideal for use in combination with absorption pigments to provide dimensional sparkle to your most chromatic color formulations. Interference grades accentuate the contours and shape of unique designs that are unmistakable.

Effect Pigment Brands	SunMICA	SunMICA FUSE	SunMICA LUX	SunGEM XST
Type	Natural Mica	Natural Mica	Synthetic Mica	Glass Flake
Applications				
Injection Molding	√	√	√	√
Blow Molding	√	√	√	√
Films	√	√	√	√
Packaging	√	√	√	√
Styling	√	√	√	√



notes...

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