who offers superior pigments
for plastics applications?

**we do.**

## Technical Pigments for Plastics - International

*Solutions.* *Tailor-Made.*™

SunChemical®

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| Masstone | 1/20 Tint | Product Code & Trade Name<br>Color Index | FDA | Heat Stability | Light Fast Tint | Application Data<br>Rubber | pPVC | PE | PP | PS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 271-5151 Fanchon® Yellow 151<br>PY 151 | • | 300ºC | 7 | A | A | A | A | A | Benzimidazolone Standard Dry |
| | | 275-0023 Sunbrite® Yellow 17<br>PY 17 | • | 250°C | 5-6 | A | C | A | A | B | Diarylide AAOA Standard Dry |
| | | 271-5180 Fanchon® Yellow 180<br>PY 180 | 178.3297<br>175.300 | 300°C | 7-8 | A | A | A | A | A | Benzimidazolone Standard Dry |
| | | 274-1744 Sunbrite® Yellow 14<br>PY 14 | • | 230°C | 3-4 | A | C | A | A | B | Diarylide AAOT Standard Dry |
| | | 271-0150 Fanchon® Yellow 150<br>PY 150 | • | 300°C | 8 | A | A | A | A | A | Ni Azo Yellow |
| | | 275-9849 Sunbrite® Yellow 13<br>PY 13 | • | 230°C | 5 | A | C | B | B | B | Diarylide AAMX |
| | | 262-3562 Sunbrite® Yellow 62<br>PY 62 | • | 250°C | 5 | A | A | A | A | B | Ca Lake MonoAzo |
| | | 279-0139 Fanchon® Yellow 139<br>PY 139 | • | 290°C | 7-8 | A | A | A | A | A | Fibre Grade |
| | | 275-0570 Sunbrite® Yellow 83<br>PY 83 | • | 250°C | 5-6 | A | C | A | A | B | Diarylide AADMCA Standard Dry |
| | | 279-7110 Fanchon® Yellow 110<br>PY 110 | 178.3297<br>175.300 | 290°C | 8 | A | A | A | A | A | Isoindolinone - Yellow |

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| | | 276-143P Fanchon® Orange 43 PO 43 | • | 280°C | 8 | A | C | A | A | A | Fibre grade - Excellent weather fastness |
| | | 271-6430 Fanchon® Orange 64 PO 64 | • | 300°C | 8 | A | A | A | A | A | High Performance Orange - Non Warp |
| | | 215-7616 Sunbrite® Red 53:1 PR 53:1 | • | 290°C | 2 | A | C | A | A | B | Controlled for soluble barium content for food and toy applications |
| | | 228-0SGK Fastogen® Super Scarlet GK PR 207 | *178.3297 175.300 | 300°C | 8 | A | A | A | A | A | Very yellow shade red quinacridone with excellent fastness properties, namely weather fastness |
| | | 235-7070 Sunbrite® Red 170 PR 170 | • | 290°C | 6 | A | C | A | A | B | Napthol Opaque - Standard Dry |
| | | 234-0124 Sunbrite® Red 48:3 PR 48:3 | • | 230°C | 6-7 | A | A | A | A | B | Economic PR 48:3 - Film & PP fibre grade |
| | | 234-3123 Sunbrite® Red 48:3 PR 48:3 | • | 230°C | 6-7 | A | A | A | A | B | Medium yellow shade - Highest lightfastness among the 2B toners - Film & PP fibre grade |
| | | 226-5254 Fastogen® Super Red 254 PR 254 | 178.3297 175.300 | 290°C | 7 | A | A | A | A | A | DPP Red |
| | | 235-7170 Sunbrite® Red 170 PR 170 | • | 275°C | 5 | A | C | A | A | B | Napthol Translucent - Standard Dry |
| | | 234-0781 Sunbrite® Red 48:2 PR 48:2 | • | 230°C | 5 | A | C | A | A | B | Ca2B - Standard Dry for film & fibre |

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| | | 225-2480 Sunbrite® Red 60:1 PR 60:1 | • | 300°C | 4 | A | A | A | A | A | Ba/Al Scarlet - Standard Product |
| | | 211-4620 Sunbrite® Red 49:2 PR 49:2 | • | 275°C | 2 | A | C | A | A | B | Medium blue shade red |
| | | 235-4586 Symuler® Fast Red 4586 PR 185 | • | 230°C | 7-8 | A | A | A | A | B | Durable, weatherfast red - extreme migration fastness |
| | | 236-5025 Sunbrite® Red 38 PR 38 | 177.2600 | 175°C | 3 | A | B | B | B | B | Final colored articles are resistant to water, soap & detergent solutions - Equally fast to a variety of organic solvents, including gasoline |
| | | 227-ATY1 Fastogen® Super Red ATY PR177 | • | 260°C | 7-8 | A | A | A | A | A | Non-warping, durable, weatherfast red |
| | | 229-8768 Perrindo® Maroon Red 179 PR 179 | 178.3297 175.300 | 260°C | 7 | A | A | A | A | A | Perylene Red - Standard Dry |
| | | 228-0044 Quindo® Red 19 PV 19 | 178.3297 175.300 | 300°C | 8 | A | A | A | A | A | Quinacridone Red - Bright MT vs. 0022 |
| | | 228-0022 Quindo® Red 19 PV 19 | 178.3297 175.300 | 300°C | 7-8 | A | A | A | A | A | Quinacridone Red - Standard Product |
| | | 228-8673 Sunplast® G Red 19 4B Gran PV 19 | 178.3297 175.300 | 300°C | 8 | A | A | A | A | A | Quinacridone Red - Sunplast® G - Granules Shade of 4B on the color wheel |
| | | 219-0125 Sunbrite® Red 57:1 PR 57:1 | • | 240°C | 4 | A | C | A | A | B | Very Strong - Fibre Grade |

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| | | 228-6725 Quindo® Magenta 202 PR 202 | *178.3297 175.300 | 300°C | 7 | A | A | A | A | A | Quinacridone Magenta 202 - Opaque - Yellow Shade |
| | | 228-0013 Quindo® Magenta 122 PR 122 | 178.3297 175.300 | 300°C | 8 | A | A | A | A | A | Quinacridone Magenta - Standard Dry |
| | | 228-8655 Sunplast® G Magenta 122 Gran PR 122 | 178.3297 175.300 | 300°C | 8 | A | A | A | A | A | Quinacridone Magenta - Sunplast® G - Granules - Slightly Softer & Blue vs. 0013 |
| | | 228-6655 Quindo® Magenta 122 PR 122 | 178.3297 175.300 | 300°C | 8 | A | A | A | A | A | Quinacridone Magenta - Non-granulated 8655 |
| | | 228-RE03 Fastogen® Magenta RE03 PR 122 | 178.3297 175.300 | 300°C | 8 | A | A | A | A | A | Bluer quinacridone magenta |
| | | 228-6864 Sunplast® G Magenta 202 2B Gran PR 202 | *178.3297 175.300 | 300°C | 7 | A | A | A | A | A | Quinacridone Magenta 202 - Sunplast® G - Granules - Low Pressure Rise - Blue shade |
| | | 228-8638 Quindo® Violet 19 PV 19 | 178.3297 175.300 | 300°C | 7-8 | A | A | A | A | A | Quinacridone Violet - Slightly Strong & Red vs. 5199 |
| | | 228-5199 Quindo® Violet 19 PV 19 | 178.3297 175.300 | 300°C | 7-8 | A | A | A | A | A | Quinacridone Violet - Standard Dry |
| | | 228-8653 Sunplast® G Violet 19 R Gran PV 19 | 178.3297 175.300 | 300°C | 7-8 | A | A | A | A | A | Quinacridone Violet - Sunplast® G - Granules |
| | | 228-1158 Quindo® Violet 19 PV 19 | 178.3297 175.300 | 300°C | 7-8 | A | A | A | A | A | Quinacridone Violet - Slightly Less Red vs. 5199 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 229-4050 Perrindo® Violet 29 PR 29 | • | 260°C | 7 | A | A | A | A | A | Perylene Violet - Standard Dry |
| | | 246-0505 Indofast® Violet 23 PV 23 | • | 250°C | 7-8 | A | A | A | A | B | Dioxazine Violet - Standard Dry - Bluest, softest grade |
| | | 246-VRZE Fastogen® Super Violet RZE PV 23 | • | 250°C | 7-8 | A | A | A | A | B | Dioxazine Violet - Standard Dry |
| | | 260-5646 Palomar® Blue 60 PB 60 | • | 300°C | 7-8 | A | A | A | A | A | Indanthrone Blue - Non warp |
| | | 248-3740 Sunfast® Blue 15:1 PB 15:1 | 178.3297 175.300 | 290°C | 7-8 | A | A | A | A | A | Very red shade economic stabilized alpha blue |
| | | 248-3700 Sunfast® Blue 15:1 PB 15:1 | 178.3297 175.300 | 290°C | 7-8 | A | A | A | A | A | PCN RS Blue - Stabilized |
| | | 248-0061 Sunfast® Blue 15:1 PB 15:1 | 178.3297 175.300 | 300°C | 7-8 | A | A | A | A | A | PCN RS Blue Mono Cl - Standard Dry - Greener shade alpha blue |
| | | 249-A80P Sunfast® PA5380 PB 15:3 | 178.3297 175.300 | 260°C | 7 | A | A | A | A | A | PCN GS Blue |
| | | 249-3450 Sunfast® Blue 15:4 PB 15:4 | 178.3297 175.300 | 300°C | 7-8 | A | A | A | A | A | PCN GS Blue NCNF - Excellent heat stability at low concentrations |
| | | 264-7700 Sunfast® Green 7 PG 7 | 178.3297 175.300 | 300°C | 7-8 | A | A | A | A | A | PCN Green |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 264-7405 Sunfast® Green 7 PG 7 | 178.3297 175.300 | 300°C | 7-8 | A | A | A | A | A | PNC Green Fibre Grade |
| | | 264-1036 Sunfast® Green 36 PG 36 | 178.3297 175.300 | 300°C | 7-8 | A | A | A | A | A | PCN Green - Very Yellow Shade |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | L75-1331 PE Flush Yellow 17<br>PY 17 | • | 250°C | 5-6 | D | D | A | A | D | Diarylide AAOA - 50% PE Flush |
| | | L74-1357 PE Flush Yellow 14<br>PY 14 | • | 230°C | 3-4 | D | D | A | A | D | Diarylide AAOT - 50% PE Flush |
| | | L75-1349 PE Flush Yellow 13<br>PY 13 | • | 230°C | 5 | D | D | A | A | D | Diarylide AAMX - 50% PE Flush |
| | | L71-P495 EVA Predisol® Yellow 95<br>PY 95 | • | 300°C | 7 | A | A | A | A | A | Disazocondensation Yellow - 60% EVA Predisol® |
| | | L75-2377 PE Flush Yellow 83<br>PY 83 | • | 250°C | 5-6 | D | D | A | A | D | Diarylide AADMCA - 50% PE Flush |
| | | L76-P282 PE Predisol® Orange 16<br>PO 16 | • | 220°C | 3 | D | D | A | A | D | Diarylide Orange - 50% PE Predisol |
| | | L15-1210 PE Flush Red 53:1<br>PR 53:1 | • | 290°C | 2 | D | D | A | A | D | Ba RLC - 50% PE Flush |
| | | L15-P253 PE Predisol® Red 53:1<br>PR 53:1 | • | 290°C | 2 | D | D | A | A | D | Ba RLC - 60% PE Predisol® |
| | | L26-P254 PE Predisol® Red 254<br>PR 254 | 178.3297<br>175.300 | 290°C | 7 | D | D | A | A | D | 60% PE Predisol® |
| | | L34-1209 PE Flush Red 48:2<br>PR 48:2 | • | 230°C | 5 | D | D | A | A | D | Ca2B - 50% PE Flush |

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| | | L34-P248 PE Predisol® Red 48:2 PR 48:2 | • | 230°C | 5 | D | D | A | A | D | Ca2B - 60% PE Predisol® |
| | | L28-P213 PE Predisol® Magenta 122 PR 122 | 178.3297 175.300 | 300°C | 8 | D | D | A | A | D | Quinacridone Magenta - 60% PE Predisol® of 0013 |
| | | L46-4568 PE Flush Violet 23 PV 23 | • | 250°C | 7-8 | D | D | A | A | D | Dioxazine Violet - 50% PE Flush |
| | | L48-3747 PE Flush Blue 15:1 PB 15:1 | 178.3297 175.300 | 300°C | 7-8 | D | D | A | A | D | PCN RS Blue - Stabilized - 50% PE Flush |
| | | L48-P205 PE Predisol® Blue 15:1 PB 15:1 | • | 300°C | 7-8 | D | D | A | A | D | PCN RS Blue - Stabilized - 60% PE Predisol® |
| | | L48-P409 EVA Predisol® Blue 15:1 PB 15:1 | 178.3297 175.300 | 290°C | 7-8 | D | D | A | A | D | PCN RS Blue - Stabilized - 60% EVA Predisol® |
| | | L48-1206 PE Flush Blue 15:1 PB 15:1 | 178.3297 175.300 | 300°C | 7-8 | D | D | A | A | D | PCN RS Blue Mono Cl - 50% PE Flush |
| | | L49-0714 PE Flush Blue 15:3 PB 15:3 | 178.3297 175.300 | 290°C | 7 | D | D | A | A | D | PCN GS Blue - 50% PE Flush of 1284 |
| | | L49-P225 PE Predisol® Blue 15:3 PB 15:3 | 178.3297 175.300 | 290°C | 7 | D | D | A | A | D | PCN GS Blue - 50% PE Predisol® |
| | | L49-P226 PE Predisol® Blue 15:4 PB 15:4 | 178.3297 175.300 | 300°C | 7-8 | D | D | A | A | D | PCN GS Blue NCNF - 50% PE Predisol® |

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| | | L64-3107 PE Flush Green 7 PG 7 | 178.3297 175.300 | 300°C | 7 | D | D | A | A | D | PCN Green - 50% PE Flush |
| | | L64-P264 PE Predisol® Green 7 PG 7 | 178.3297 175.300 | 300°C | 7-8 | D | D | A | A | D | PCN Green - 50% PE Predisol® |
| | | L64-1207 PE Flush Green 7 PG 7 | 178.3297 175.300 | 300°C | 7-8 | D | D | A | A | D | PCN Green - 50% PE Flush |
| | | L64-P236 PE Predisol® Green 36 PG 36 | 178.3297 175.300 | 300°C | 7-8 | D | D | A | A | D | PCN Green - 60% PE Predisol® |
| | | L29-P206 PE Predisol® Perylene Black 31 PBI 31 | • | 260°C | 7 | D | D | A | A | D | Perylene Black - 60% PE Predisol® |
| | | L47-P202 PE Predisol® Carbon Black 7 PBI 7 | 178.3297 175.300 | 290°C | 7-8 | D | D | A | A | D | Carbon Black - 50% PE Predisol® |
| | | L47-P411 EVA Predisol® Carbon Black 7 PBI 7 | 178.3297 175.300 | 290°C | 7-8 | D | D | A | A | D | Carbon Black - 60% EVA Predisol® |

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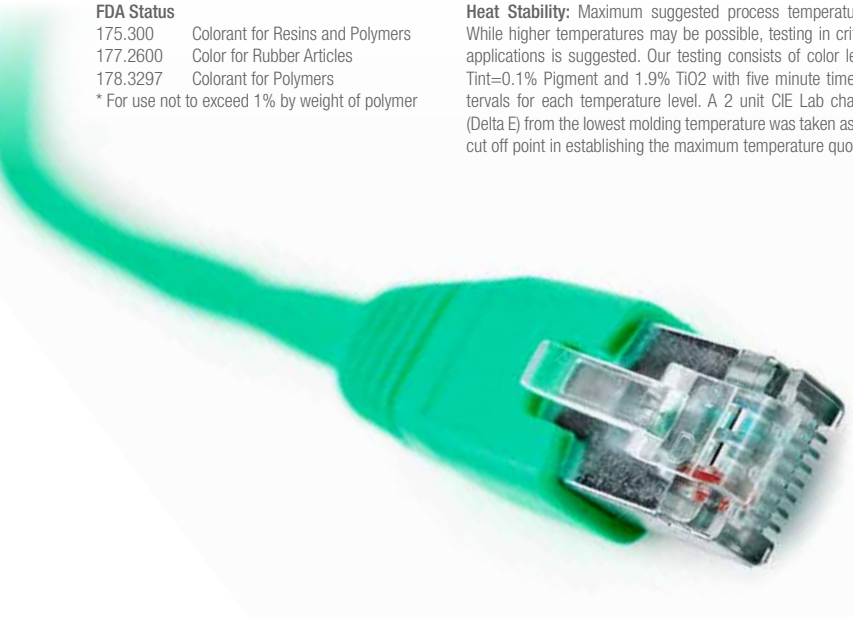

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| | | C69-4537 SunCROMA™ FD&C Yellow 5 Al Lake PY 5 | FD&C | 250°C | 3 | A | A | A | A | B | Food Lake - 38% Dye Content |
| | | C70-5270 SunCROMA™ FD&C Yellow 6 Al Lake PY 6 | FD&C | 275°C | 2 | A | A | A | A | B | Food Lake -40% Dye Content |
| | | C37-6340 SunCROMA™ FD&C Yellow 40 Al Lake PY 40 | FD&C | 200°C | 2 | A | A | A | A | B | Food Lake - 38% Dye Content |
| | | C19-003 SunCROMA™ FD&C Red 7 Al Lake PR 7 | FD&C | 220°C | 3 | A | A | A | A | B | CA Lake - 60% Pigment |
| | | C39-4433 SunCROMA™ FD&C Blue 1 Al Lake PB 1 | FD&C | 200°C | 3 | A | A | A | A | B | Food Lake - 12% Dye Content |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | L69-4534 SunCROMA™ FD&C Yellow 5 Al Lake PY 5 | FD&C | 280°C | 3 | D | D | A | A | D | 60% PE Flush of C39-4537 |
| | | L70-5275 SunCROMA™ FD&C Yellow 6 Al Lake PY 6 | FD&C | 250°C | 3 | D | D | A | A | D | 60% PE Flush of C70-5270 |
| | | L37-6340 SunCROMA™ FD&C Red 40 Al Lake PY 40 | FD&C | 200°C | 2 | D | D | A | A | D | Food Lake - 60% Flush |
| | | L39-6342 SunCROMA™ FD&C Blue 1 Al Lake PB 1 | FD&C | 200°C | 3 | D | D | A | A | D | Food Lake - 55% Flush |

**FDA Status**
175.300 Colorant for Resins and Polymers
177.2600 Color for Rubber Articles
178.3297 Colorant for Polymers
* For use not to exceed 1% by weight of polymer

**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

SunChemical®
a member of the DIC group

## Trade Name Information

Chaos: Synthetic double order interference micas. Available as weather resistant and untreated grades.

Fanchon®: High performance pigments for plastics.

Fastogen® Super: High performance pigments for plastics.

Fastogen® Super: High performance pigments for plastics.

Indofast®: High performance carbazole violet pigments for plastics.

Palomar®: High performance tetrachlor phthalocyanine pigments.

Perrindo®: High performance perylene pigments for plastics.

Predisol®: A range of highly pigmented (20-60%) dispersions for plastics. Full dispersion and highly loaded concentrates.

Quindo®: High performance quinacridone pigments for automotive, industrial and architectural coatings.

Reflex: Synthetic micas available as weather resistant and untreated grades.

Sunplast®: Free-flowing, low dusting, micro granular product form.

Sunbrite®: Classical azo pigments for architectural and industrial coatings.

Sunfast®: Phthalocyanine pigments for plastics.

SunGEM™: Specialty metal oxide coated mica. Available as weather resistant and untreated grades.

SunMETALLICS®: Aluminum pigments for coatings, including cornflake and silver dollar types with a wide range of flake size to cover most application needs (coming soon to plastics)

SunMICA®: Natural untreated pearlescent micas.

Symuler®: Classical azo pigments.

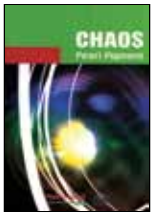
## Special Effects Brochures Available

SunMica®

Automotive Pearls

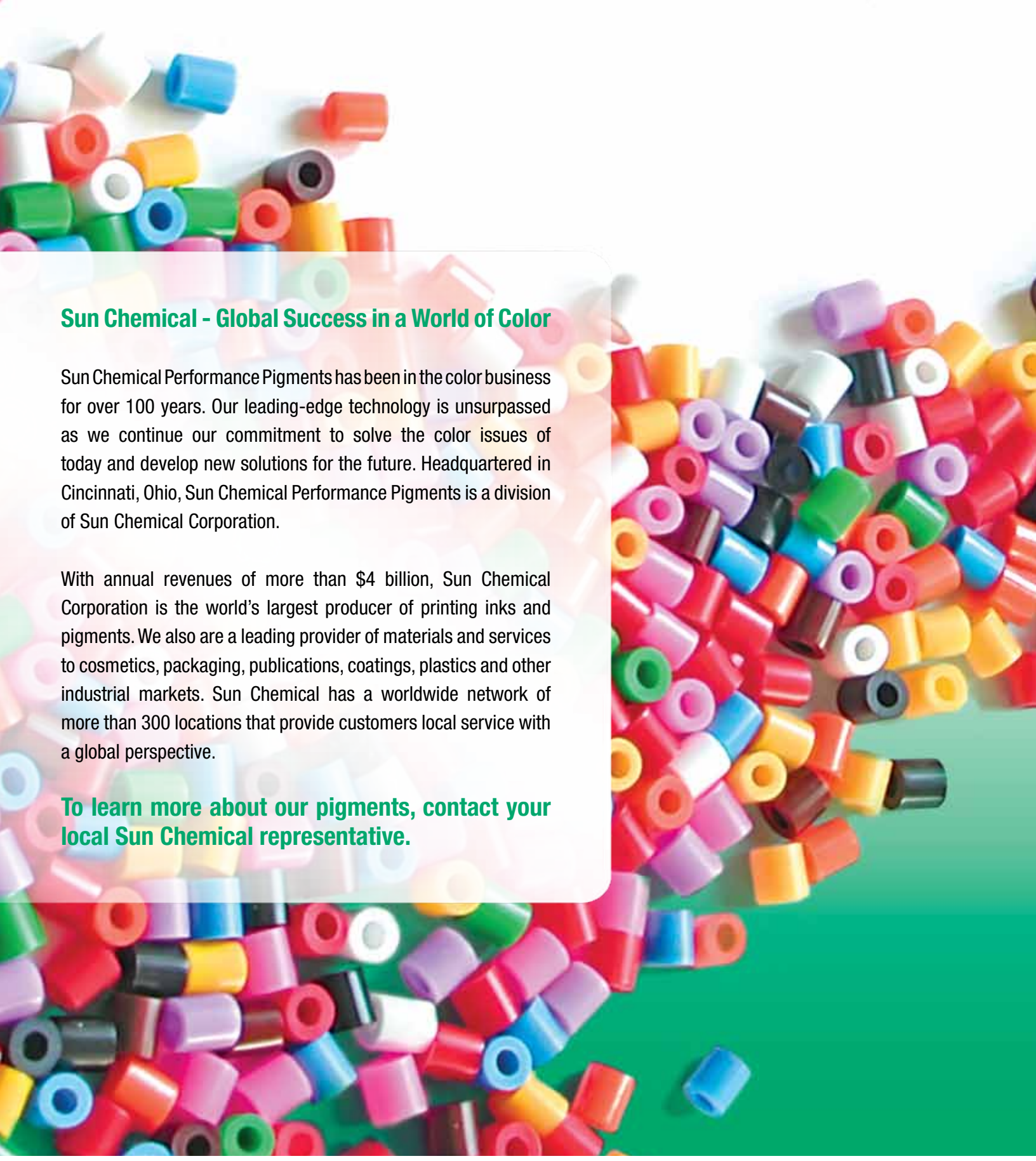
Automotive Chaos


Reflex Pearl Pigments




Chaos Pearl Pigments


Reflex Pigment Coated Pearls



## Sun Chemical - Global Success in a World of Color

Sun Chemical Performance Pigments has been in the color business for over 100 years. Our leading-edge technology is unsurpassed as we continue our commitment to solve the color 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 $4 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 cosmetics, packaging, publications, coatings, plastics and other industrial markets. Sun Chemical has a worldwide network of more than 300 locations that provide customers local service with a global perspective.

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


Sun Chemical Performance Pigments

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|---|---|
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