

# Pigments for plastics

Product selection guide

 **BASF**

We create chemistry



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## A colorful palette of solutions

BASF offers a comprehensive palette of coloring solutions that gives you the intense colors you demand for your plastics. Our pigments provide you with reliable quality, consistent processing behavior, reduced scrap rates, and enhanced productivity, and they enable you to find the optimal combination of coloring value and processing efficiency. Furthermore, our portfolio has been systematically reviewed and evaluated with our Sustainable Solution Steering method, which allows us to assess the sustainability performance of each of our products in its specific application. We create chemistry that makes performance love sustainable solutions.

For coloring plastic, we identified downstream cost savings, energy efficiency, resource efficiency, and durability, as well as health and safety, as the key drivers for more sustainable solutions.

Pigments that contribute substantially to these drivers along the value chain have been classified at BASF as Sustainability Accelerators.

The detailed analysis of our portfolio and externally assured method of clustering our products allow us to offer you and your customers' industries the solutions you need. Let's take a joint look at your specific requirements and find out how we can further improve both your, as well as our, BASF's sustainability profile!

Learn more about BASF's commitment to driving sustainable solutions at: [www.basf.com/sustainability](http://www.basf.com/sustainability)

# Explanation of data

## Color shades

All organic pigment shades shown here are based on a full shade concentration of 0.2% pigment; violets are an exception, where 0.1% pigment was used. In the white reductions, the illustrations are based on the respective pigment concentration to achieve 1/3 ISD based on 5% TiO<sub>2</sub>.

Inorganic pigment shades are based on a full shade concentration of 2% pigment and a ratio of 1:4 for white reductions.

## Polymer suitability

Possible fields of application are shown in the table, opposite each pigment. Please note that these are intended only as a general guide.

## Application performance

A selection of performance data of the most important properties in polyolefin (HDPE) and PVC (Ba/Zn-stabilized, flexible PVC) is presented here. All data given is for the corresponding base pigment, unless otherwise stated. Pigment concentrations used are those based on powder pigments.

Organic pigments:

Full shade (FS): 0.1%

White reduction (WR): 0.1% + 1% TiO<sub>2</sub> (ratio 1:10)

Inorganic pigments:

Full shade (FS): 1%

White reduction (WR): 0.5% + 2% TiO<sub>2</sub> (ratio 1:4)

## Migration (HDPE and PVC-p)

Migration resistance was determined in accordance with DIN 53775 by direct contact between the colored test sheet and a white, flexible PVC contact sheet.

Staining of the contact sheet was assessed using the ISO 105-A03 grayscale (GS) for assessing staining, with GS 5 denoting no migration and steps 4 to 5 being subdivided.

## Heat resistance (HDPE)

Heat resistance was determined by injection molding in accordance with ISO 12877-2.

The results show the highest temperature at which the color difference, versus a standard, is no greater than GS 4 on the ISO 105-A02 grayscale for assessing color change.

For most of the Sicotan® and Sicopal® products, and some high-performance organic pigments, a GS rating of 5 is achieved at the highest testing temperature of 300 °C. Therefore, heat resistance above 300 °C can be achieved under certain circumstances.

## Light fastness (HDPE and PVC-p)

Light fastness was determined using Xenon lamp exposure tests in accordance with the equivalent test methods ISO 4892-2 or ISO 105-B02.

The samples were assessed against the 1–8 Blue Wool Scale as described in ISO 105-B02, Blue Wool 8 denoting the highest light fastness.

# Explanation of data

## Hot light fastness\* (PVC-p)

Exposure was carried out to 600 kJ/m<sup>2</sup> in accordance with ASTM SAE J2412 (formally ASTM SAE J1885).

Color changes were assessed using the ISO 105-A02 grayscale (GS) for assessing color change, with GS 5 denoting no change and GS 1 denoting the lowest hot light fastness.

## Weather resistance\* (HDPE and PVC-p)

Weather resistance was determined using Xenon light exposure tests in accordance with the equivalent test methods ASTM G155, ISO 4892-2, or the former Ciba internal test method WOM 119/50.

The HDPE samples were exposed for up to 3,000 hours and the PVC-p samples for up to 5,000 hours.

Color changes were assessed using the ISO 105-A02 grayscale (GS) for assessing color change, with GS 5 denoting no change and GS 1 denoting the lowest weather resistance.

## Warping (HDPE)

Influence on the warping tendency of injection-molded HDPE articles was determined in accordance with ISO 294-4/ASTM D955.

Warping tendency was assessed as follows:

- None (N): No significant influence under laboratory test conditions and widely confirmed in practice.
- Low (L): Slight influence determined in laboratory testing but successful in practice.
- High (H): Significant influence in the laboratory and in practice. Use for large or complex HDPE injection moldings is not recommended.

## 1/3 ISD (HDPE and PVC-p)

Color strength is indicated by the number of parts of colored pigment that, in combination with a defined percentage of TiO<sub>2</sub> in a particular polymer or compound, gives 1/3 International Standard Depth (ISD) as described in DIN 53.235.

## Density

Density was determined in a pycnometer, as described in ISO/R 787-10, and is expressed as g/cm<sup>3</sup>.

## Bulk density

Bulk density was determined by the weight of a product sample that can be contained in a vessel of specified volume and is expressed as kg/l. Assessment was in accordance with ISO/R 787-11.

## Product form

Certain inorganic pigments are also available in a fine granule (FG) form. This product form is low-dusting and free-flowing.

\* Hot light fastness and weather resistance ratings below GS 3 are not included in this pattern card. Products with a low performance are not recommended for these applications.

## Organic pigments

Organic pigments usually provide the broadest possible coverage of the color space – from vivid opaque or transparent mass tones to reduced tint shades. When used in demanding engineering plastics or diluted for pastel shades, organic pigments may exhibit limitations in performance with regards to processing efficiency or fastness to light or weathering.

### Key portfolio

Product	Color shade	Chemical type	Key properties
Cinquasia®	Red – Pink / Magenta – Violet	Quinacridones	High-performance pigments for the most important plastic types and end-uses, usually combining outstanding coloristic properties, excellent lightfastness, heat and chemical resistance; in addition, select products offer excellent weather resistance or can be used in more demanding engineering plastics
Cromophthal®	Yellow to Red – Brown	Azo condensation	
	Yellow – Orange	Benzimidazolone	
	Yellow	Pteridine	
	Violet	Dioxazine	
Irgazin®	Yellow – Orange	Isoindolinone	
	Orange – Red – Rubine	DPP	
Paliogen®	Red – Violet	Perylene	
	Blue	Indanthrone	
Heliofen®	Blue – Green	Cu-phthalocyanine	
	Yellow	Isoindoline	With their outstanding coloring efficiency, these medium- to high-performance pigments are designed to efficiently cover most indoor uses for industrial or consumer applications in either plastics or fibers
Paliotol®	Yellow	Quinophtalone	
	Yellow – Orange – Red	Azo salt / Disazo	
Irgalite®	Yellow – Orange – Red – Rubine	2B, 4B BONA lake	Classical organic pigments with fair processing and end-use performance for non-critical applications

# Organic pigments

□ Limited suitability ■ Recommended

Product	Sustainability Accelerator*	Full shade (FS)	White reduction (WR)	Applications														Application performance										Physical properties				Available preparations					
				General										Fibers				HDPE					PVC-p					1/3 ISD in HDPE (1% TiO <sub>2</sub> )		1/3 ISD in PVC (1% TiO <sub>2</sub> )		Density	Bulk density	Eupolen® PE	Microlen® MC	Micranyl® Q	Microlith® KP
				PVC	PO	PS	ABS	PA6	PET	PC	PMMA	Rubber	PUR	PP	PET	PA	Migration FS 0.1%	Heat FS 0.1%	Heat WR 1:10	Light FS 0.1%	Light WR 1:10	Weather (3,000 h) FS 0.1%	Weather (3,000 h) WR 1:10	Warping	Migration FS 0.1%	Light FS 0.1%	Light WR 1:10	Hot light (600 kcal) FS 0.1%	Hot light (600 kcal) WR 1:10	Weather (5,000 h) FS 0.1%	Weather (5,000 h) WR 1:10						
Paliotol® Yellow K 0961 old: Paliotol® Yellow K 0961 HD C.I. Pigment Yellow 138** Quinophthalone	-	■	■	■	■	□	□	■	□	■	■	■	□	-	4-5	280	270	8.0	7.0	-	-	L	4.5	7-8	7.0	5.0	4-5	-	-	0.21	0.18	1.80	0.40	■	-	-	-
Cromophtal® Yellow K 0990 FP old: Cromophtal® Yellow 8GNP C.I. Pigment Yellow 128 Disazo condensation	■	■	■	□	□	-	-	-	-	■	■	■	-	-	5.0	260	260	8.0	7-8	4-5	3.0	N	5.0	8.0	7-8	5.0	4-5	4-5	4.0	0.21	0.20	1.47	0.13	-	-	-	-
Paliotol® Yellow K 1070 old: Irgalite® Yellow WGP C.I. Pigment Yellow 168 Monoazo salt	-	■	■	□	□	-	-	-	-	■	□	-	-	-	5.0	260	240	7.0	7.0	3.0	-	N	5.0	7-8	7.0	-	-	-	-	0.37	0.37	1.66	0.25	-	■	■	-
Cromophtal® Yellow K 1210 FP old: Cromophtal® Yellow 3GNP C.I. Pigment Yellow 93 Disazo condensation	-	■	■	■	□	-	-	-	□	■	■	■	-	-	5.0	280	280	8.0	6-7	4.0	-	N	5.0	8.0	7-8	5.0	5.0	4.0	3-4	0.15	0.15	1.45	0.14	-	■	■	■
Paliotol® Yellow K 1300 FP C.I. Pigment Yellow 155 Disazo condensation	■	■	■	-	-	-	-	-	-	■	■	■	-	-	4.2	260	260	7.0	6-7	3-4	-	L	4.8	8.0	7-8	5.0	4.0	4-5	3	0.15	0.15	1.40	0.20	-	■	-	-
Cromophtal® Yellow K 1310 old: Cromophtal® Yellow 4GV C.I. Pigment Yellow 215 Pteridine	■	□	■	■	■	■	-	-	-	□	□	□	-	-	5.0	300	300	7.0	7.0	4-5	4.0	L	5.0	7-8	7.0	4.0	4.0	-	-	0.18	0.15	1.62	0.30	■	-	-	-
Irgalite® Yellow K 1320 old: Irgalite® Yellow BRMO C.I. Pigment Yellow 14*** Diarylide	-	■	□	-	-	-	-	-	-	■	■	-	-	-	2-3	200	200	6-7	6.0	-	-	-	4.7	6.0	6.0	-	-	-	-	0.13	0.11	1.63	0.21	-	-	-	-
Cromophtal® Yellow K 1410 old: Cromophtal® Yellow 2GO C.I. Pigment Yellow 180 Benzimidazolone	■	■	■	□	-	□	■	■	□	□	■	-	-	5.0	300	300	7-8	7.0	4-5	-	L	5.0	8.0	7-8	5.0	4.0	4.0	-	0.15	0.11	1.40	0.21	-	■	-	-	

The color shade is indicative. The actual shade in use depends on the formulation and may vary.  
 \* Product that has been evaluated with BASF's Sustainable Solution Steering method and contributes substantially to sustainability in the value chain.  
 \*\* Products with this C.I. number may vary in color and resistance properties in different polymer systems.  
 \*\*\* At temperatures above 200 °C, diarylide pigments may decompose. Users are advised to follow the recommendations of ETAD information No. 2.

# Organic pigments

□ Limited suitability ■ Recommended

Product	Sustainability Accelerator*	Full shade (FS)	White reduction (WR)	Applications													Application performance										Physical properties				Available preparations								
				General									Fibers				HDPE					PVC-p																	
				PVC	PO	PS	ABS	PA6	PET	PC	PMMA	Rubber	PUR	PP	PET	PA	Migration FS 0.1%	Heat FS 0.1%	Heat WR 1:10	Light FS 0.1%	Light WR 1:10	Weather (3,000 h) FS 0.1%	Weather (3,000 h) WR 1:10	Warping	Migration FS 0.1%	Light FS 0.1%	Light WR 1:10	Hot light (600 kcJ) FS 0.1%	Hot light (600 kcJ) WR 1:10	Weather (5,000 h) FS 0.1%	Weather (5,000 h) WR 1:10	1/3 ISD in HDPE (1% TiO <sub>2</sub> )	1/3 ISD in PVC (1% TiO <sub>2</sub> )	Density	Bulk density	Eupolen® PE	Microlen® MC	Micranyl® Q	Microlith® KP
Irgalite® Yellow K 1415 C.I. Pigment Yellow 13*** Diarylide	-	■	■	■	□	-	-	-	-	-	■	■	-	-	-	4.6	200	200	7-8	6-7	-	-	-	-	5.0	7.0	6.0	-	-	-	-	0.10	0.08	1.34	0.21	-	■	-	-
Paliotol® Yellow K 1420 old: Irgalite® Yellow WSR C.I. Pigment Yellow 62 Monoazo salt	-	■	■	□	□	-	-	-	-	■	□	-	-	-	5.0	250	260	7.0	7.0	-	-	L	5.0	7.0	7.0	-	-	-	-	0.35	0.33	1.59	0.20	-	■	-	-		
Cromophthal® Yellow K 1500 FP old: Cromophthal® Yellow GRP C.I. Pigment Yellow 95 Disazo condensation	-	■	■	■	□	-	-	-	□	■	■	■	-	-	5	280	280	7-8	6-7	3	-	N	5	8	7-8	4-5	4-5	3-4	-	0.14	0.13	1.36	0.14	-	■	■	-		
Paliotol® Yellow K 1700 C.I. Pigment Yellow 183 Monoazo salt	-	■	■	■	■	□	□	□	■	■	□	■	□	-	5	300	280	7	6-7	-	-	L	5	7	6	4	3-4	-	-	0.23	0.18	1.70	0.10	-	-	-	-		
Irgalite® Yellow K 1740 old: Irgalite® Yellow B3RN C.I. Pigment Yellow 83*** Diarylide	-	■	□	-	-	-	-	-	-	■	■	-	-	-	4.4	200	200	7	7	-	-	-	5	8	7-8	5	3-4	-	-	0.07	0.05	1.51	0.20	-	■	■	■		
Paliotol® Yellow K 1750 C.I. Pigment Yellow 229 Monoazo salt	■	■	■	□	□	-	-	-	□	■	□	-	-	-	5	300	300	7	5-6	-	-	N	5	6-7	6	2-3	2-3	-	-	0.15	0.12	1.61	0.19	-	■	-	-		
Paliotol® Yellow K 1760 FP old: Cromophthal® Yellow HRPN C.I. Pigment Yellow 191:1 Monoazo salt	-	■	■	■	■	□	□	□	■	■	□	■	-	-	5	300	300	7	6-7	3-4	-	N	5	8	7	4-5	3-4	-	-	0.35	0.31	1.43	0.21	■	-	■	-		
Paliotol® Yellow K 1800 old: Paliotol® Yellow K 2270 C.I. Pigment Yellow 183 Monoazo salt	-	■	■	■	■	□	□	□	■	■	■	■	-	-	5	300	300	7	6-7	3-4	-	L	5	8	7	4-5	3-4	-	-	0.43	0.34	1.80	0.40	■	-	-	-		

The color shade is indicative. The actual shade in use depends on the formulation and may vary.  
 \* Product that has been evaluated with BASF's Sustainable Solution Steering method and contributes substantially to sustainability in the value chain.  
 \*\* Products with this C.I. number may vary in color and resistance properties in different polymer systems.  
 \*\*\* At temperatures above 200 °C, diarylide pigments may decompose. Users are advised to follow the recommendations of ETAD information No. 2.



# Organic pigments

□ Limited suitability    ■ Recommended

Product	Sustainability Accelerator*	Full shade (FS)	White reduction (WR)	Applications												Application performance										Physical properties				Available preparations									
				General						Fibers						HDPE					PVC-p					1/3 ISD in HDPE (1% TiO <sub>2</sub> )		1/3 ISD in PVC (1% TiO <sub>2</sub> )		Density	Bulk density	Eupolen® PE	Microlen® MC	Micranyl® Q	Microliht® KP				
				PVC	PO	PS	ABS	PA6	PET	PC	PMMA	Rubber	PUR	PP	PET	PA	Migration FS 0.1%	Heat FS 0.1%	Heat WR 1:10	Light FS 0.1%	Light WR 1:10	Weather (3,000 h) FS 0.1%	Weather (3,000 h) WR 1:10	Warping	Migration FS 0.1%	Light FS 0.1%	Light WR 1:10	Hot light (600 kcal) FS 0.1%	Hot light (600 kcal) WR 1:10							Weather (5,000 h) FS 0.1%	Weather (5,000 h) WR 1:10		
Pallitol® Yellow K 1841 FP C.I. Pigment Yellow 139** Isoindoline	■	Orange	Orange	■	□	□	-	-	-	-	□	■	■	-	-	5	240	240	8	7	3	-	L	4.5	7	6	3-4	3-4	-	-	0.14	0.10	1.60	0.30	■	-	-	-	
Irgazin® Yellow K 2060 FP old: Cromophthal® Yellow 3RPL C.I. Pigment Yellow 110 Isoindolinone	■	Orange	Orange	■	■	■	■	-	-	-	-	■	■	□	-	-	5	300	300	7-8	8	4-5	4	H	5	8	8	4-5	4-5	4-5	4-5	0.30	0.30	1.80	0.23	■	■	■	■
Irgazin® Yellow K 2070 old: Cromophthal® Yellow 2RLTS C.I. Pigment Yellow 110 Isoindolinone	■	Orange	Orange	■	□	□	□	-	-	-	-	■	□	□	-	-	5	300	300	8	8	4-5	3-4	H	5	8	8	4-5	4-5	4-5	4-5	0.26	0.20	1.67	0.25	-	■	■	■
Irgazin® Yellow K 2080 old: Cromophthal® Yellow 2RPL C.I. Pigment Yellow 110 Isoindolinone	■	Orange	Orange	■	■	■	■	-	-	-	-	■	■	■	-	-	5	300	300	8	8	4-5	3-4	H	5	8	8	4-5	4-5	4-5	4-5	0.24	0.22	1.78	0.27	-	-	-	-
Irgazin® Orange K 2890 old: Cromophthal® Orange 2G C.I. Pigment Orange 61 Isoindolinone	■	Orange	Orange	■	■	■	□	-	-	-	□	■	■	■	-	-	5	300	300	7-8	7-8	4-5	3	H	4.9	8	8	5	5	4	3-4	0.23	0.20	1.66	0.30	-	-	-	-
Irgazin® Orange K 2910 old: Cromophthal® DPP Orange TRP C.I. Pigment Orange 71 Diketopyrrolopyrrole (DPP)	-	Orange	Orange	■	■	■	□	-	-	-	-	■	■	■	-	-	5	300	300	7-8	7-8	4	-	L	5	7-8	7-8	4-5	4	-	-	0.23	0.17	1.40	0.17	-	■	-	-
Pallitol® Orange K 2920 C.I. Pigment Orange 79** Azo salt	■	Orange	Orange	■	■	□	□	-	□	□	□	■	-	-	-	5	280	280	5	4	-	-	L	5	5	4	-	-	-	-	0.30	0.27	1.70	0.18	-	-	-	-	
Irgalite® Orange K 2925 old: Irgalite® Orange F2G C.I. Pigment Orange 34*** Diarylide	-	Orange	Orange	■	□	-	-	-	-	-	-	■	■	-	-	3-4	200	200	6-7	5	-	-	-	-	4.7	6-7	5-6	-	-	-	-	0.16	0.10	1.37	0.16	-	■	-	-

The color shade is indicative. The actual shade in use depends on the formulation and may vary.  
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 \*\*\* At temperatures above 200 °C, diarylide pigments may decompose. Users are advised to follow the recommendations of ETAD information No. 2.

# Organic pigments

□ Limited suitability ■ Recommended

Product	Sustainability Accelerator*	Full shade (FS)	White reduction (WR)	Applications													Application performance										Physical properties				Available preparations								
				General										Fibers			HDPE					PVC-p																	
				PVC	PO	PS	ABS	PA6	PET	PC	PMMA	Rubber	PUR	PP	PET	PA	Migration FS 0.1%	Heat FS 0.1%	Heat WR 1:10	Light FS 0.1%	Light WR 1:10	Weather (3,000 h) FS 0.1%	Weather (3,000 h) WR 1:10	Warping	Migration FS 0.1%	Light FS 0.1%	Light WR 1:10	Hot light (600 kcal) FS 0.1%	Hot light (600 kcal) WR 1:10	Weather (5,000 h) FS 0.1%	Weather (5,000 h) WR 1:10	1/3 ISD in HDPE (1% TiO <sub>2</sub> )	1/3 ISD in PVC (1% TiO <sub>2</sub> )	Density	Bulk density	Eupolen® PE	Microlen® MC	Micranyl® Q	Microlith® KP
Cromophthal® Orange K 2960 old: Cromophthal® Orange GP C.I. Pigment Orange 64 Benzimidazolone	-	Orange	Orange	■	■	■	■	-	-	□	□	■	■	□	-	-	5	300	300	8	7-8	3-4	-	L	5	7-8	7-8	4-5	3-4	-	-	0.21	0.21	1.59	0.39	-	■	■	-
Irgazin® Orange K 2990 old: Irgazin® DPP Orange RA C.I. Pigment Orange 73 Diketopyrrolopyrrole (DPP)	-	Orange	Orange	■	□	-	-	-	-	-	-	■	■	-	-	-	4.9	300	280	8	7	4	-	H	4.6	7-8	6-7	3-4	-	-	-	0.35	0.37	1.30	0.29	-	-	-	-
Cromophthal® Brown K 3001 old: Cromophthal® Brown 5R C.I. Pigment Brown 23 Disazo condensation	-	Brown	Brown	■	□	□	□	-	-	-	□	■	■	-	-	-	5	260	260	6-7	7	5	3-4	-	4.9	8	7-8	5	5	4	-	0.16	0.15	1.55	0.21	-	-	-	■
Cromophthal® Scarlet K 3540 old: Cromophthal® Scarlet RN C.I. Pigment Red 166 Disazo condensation	-	Red	Red	■	■	■	□	-	-	-	□	■	■	■	-	-	5	300	300	7-8	7-8	3-4	-	H	5	8	7	5	4-5	3-4	-	0.20	0.18	1.47	0.19	-	-	■	■
Pallogen® Red K 3580 C.I. Pigment Red 149 Perylene	-	Red	Red	■	■	■	□	□	□	□	■	■	■	■	□	■	5	280	280	8	7	4	3	H	5	8	7-8	5	3-4	4	-	0.15	0.12	1.40	0.23	-	-	■	-
Irgazin® Flame Red K 3800 old: Cromophthal® DPP Flame Red FP C.I. Pigment Red 272 Diketopyrrolopyrrole (DPP)	■	Red	Red	■	■	□	-	-	-	-	-	■	■	□	-	-	4.9	300	300	7-8	7-8	3-4	-	L	4.9	7-8	7	4	3-4	3-4	-	0.18	0.15	1.38	0.18	-	■	-	-
Cromophthal® Red K 3830 old: Cromophthal® Red G C.I. Pigment Red 220 Disazo condensation	-	Red	Red	□	■	■	□	□	-	-	-	□	□	□	-	□	5	300	300	7-8	7-8	3	-	N	4.8	7	7	-	-	-	-	0.20	0.17	1.40	0.25	-	-	-	-
Irgazin® Red K 3840 old: Cromophthal® Red 2030 C.I. Pigment Red 254 Diketopyrrolopyrrole (DPP)	■	Red	Red	■	■	■	□	-	-	-	-	■	■	■	-	-	5	300	300	8	8	4	-	H	5	8	8	5	5	5	3	0.16	0.15	1.63	0.18	-	■	■	■

The color shade is indicative. The actual shade in use depends on the formulation and may vary.  
\* Product that has been evaluated with BASF's Sustainable Solution Steering method and contributes substantially to sustainability in the value chain.

# Organic pigments

□ Limited suitability ■ Recommended

Product	Sustainability Accelerator*	Full shade (FS)	White reduction (WR)	Applications														Application performance										Physical properties				Available preparations							
				General										Fibers				HDPE					PVC-p																
				PVC	PO	PS	ABS	PA6	PET	PC	PMMA	Rubber	PUR	PP	PET	PA	Migration FS 0.1%	Heat FS 0.1%	Heat WR 1:10	Light FS 0.1%	Light WR 1:10	Weather (3,000 h) FS 0.1%	Weather (3,000 h) WR 1:10	Warping	Migration FS 0.1%	Light FS 0.1%	Light WR 1:10	Hot light (600 kcal) FS 0.1%	Hot light (600 kcal) WR 1:10	Weather (5,000 h) FS 0.1%	Weather (5,000 h) WR 1:10	1/3 ISD in HDPE (1% TiO <sub>2</sub> )	1/3 ISD in PVC (1% TiO <sub>2</sub> )	Density	Bulk density	Eupolen® PE	Microlen® MC	Micranyl® Q	Microlith® KP
Irgazin® Red K 3840 LW old: Cromophthal® Red 2028 C.I. Pigment Red 254 Diketopyrrolopyrrole (DPP)	■			□	■	□	□	-	-	-	-	□	□	■	-	-	5	300	300	8	8	4	-	N	5	8	7-8	4-5	4-5	3-4	0.16	0.15	1.63	0.18	-	■	-	-	
Irgazin® Red K 3845 old: Irgazin® DPP Red B0 C.I. Pigment Red 254 Diketopyrrolopyrrole (DPP)	-			■	■	■	□	□	-	-	□	■	□	-	-	-	5	300	300	8	8	5	3	H	5	8	8	5	5	5	3-4	0.23	0.23	1.62	0.33	-	-	-	■
Irgazin® Red K 3845 LW old: Cromophthal® DPP Red BOC C.I. Pigment Red 254 Diketopyrrolopyrrole (DPP)	■			-	■	■	□	□	-	-	□	■	-	-	-	-	5	300	300	8	8	5	3	L	-	-	-	-	-	-	0.23	-	1.62	0.33	-	■	-	-	
Cromophthal® Red K 3890 FP old: Cromophthal® Red BRNP C.I. Pigment Red 144 Disazo condensation	-			■	■	■	■	-	□	□	□	■	□	■	-	-	5	300	300	7-8	7	3	-	H	4.9	8	7-8	5	5	3-4	-	0.14	0.12	1.52	0.14	-	■	■	■
Cromophthal® Red K 3900 FP old: Cromophthal® Red BNFP PP C.I. Pigment Red 214 Disazo condensation	-			■	■	■	■	□	■	□	■	■	□	■	■	-	5	300	300	7-8	7	4-5	-	H	5	8	7-8	5	5	3	-	0.14	0.13	1.55	0.10	-	-	-	-
Paliogen® Red K 3911 old: Paliogen® Red K 3911 HD C.I. Pigment Red 178 Perylene	-			■	■	■	□	□	■	□	■	■	■	■	□	□	5	300	300	8	7	3-4	-	H	5	8	7	5	4	-	-	0.26	0.18	1.60	0.22	■	-	-	-
Cromophthal® Red K 4035 old: Cromophthal® Red 2B C.I. Pigment Red 221 Disazo condensation	-			■	□	-	-	-	-	-	-	■	■	-	-	-	5	260	260	7-8	6-7	3	-	-	5	7-8	6-7	5	3	-	-	0.12	0.11	1.33	0.30	-	-	■	-
Irgalite® Red K 4060 FP old: Irgalite® Red 2BSP C.I. Pigment Red 48:3** BONA (Sr)	-			■	■	□	□	-	-	-	-	■	■	■	-	-	5	240	260	6	4	-	-	L	5	6	5-6	-	-	-	-	0.17	0.14	1.82	0.22	-	■	-	-

The color shade is indicative. The actual shade in use depends on the formulation and may vary.  
\* Product that has been evaluated with BASF's Sustainable Solution Steering method and contributes substantially to sustainability in the value chain.  
\*\* Products with this C.I. number may vary in color and resistance properties in different polymer systems.

Organic pigments

☐ Limited suitability    ■ Recommended

Product	Sustainability Accelerator*	Full shade (FS)	White reduction (WR)	Applications														Application performance										Physical properties				Available preparations								
				General										Fibers				HDPE					PVC-p																	
				PVC	PO	PS	ABS	PA6	PET	PC	PMMA	Rubber	PUR	PP	PET	PA	Migration FS 0.1%	Heat FS 0.1%	Heat WR 1:10	Light FS 0.1%	Light WR 1:10	Weather (3,000 h) FS 0.1%	Weather (3,000 h) WR 1:10	Warping	Migration FS 0.1%	Light FS 0.1%	Light WR 1:10	Hot light (600 kcal) FS 0.1%	Hot light (600 kcal) WR 1:10	Weather (5,000 h) FS 0.1%	Weather (5,000 h) WR 1:10	1/3 ISD in HDPE (1% TiO <sub>2</sub> )	1/3 ISD in PVC (1% TiO <sub>2</sub> )	Density	Bulk density	Eupolen® PE	Microlen® MC	Micranyl® Q	Microlith® KP	
Irgazin® Rubine K 4080 / K 4085 old: Cromophthal® Rubine TR / Irgazin® DPP Rubine TR C.I. Pigment Red 264 Diketopyrrolopyrrole (DPP)	■			■	■	☐	☐	☐	☐	-	-	■	■	■	■	-	5	300	300	7-8	7-8	4-5	3	N	5	8	7-8	5	3-4	4-5	-	0.11	0.09	1.40	0.26	-	■	-	-	-
Paliogen® Red K 4180 C.I. Pigment Red 179 Perylene	■			■	■	■	☐	☐	☐	☐	■	■	■	☐	■	5	300	300	8	8	5	4	H	5	8	8	5	5	5	4-5	0.17	0.13	1.50	0.36	-	-	-	-	-	
Cinquasia® Red K 4104 old: Cromophthal® Red 2020 C.I. Pigment Violet 19 Quinacridone	■			■	■	■	■	-	☐	-	-	■	■	■	■	-	5	300	300	8	8	4-5	3-4	L	5	8	8	5	5	4-5	3-4	0.37	0.33	1.51	0.21	-	■	-	-	-
Cinquasia® Red K 4111 old: Cromophthal® Red TBR C.I. Pigment Violet 19 Quinacridone	-			■	■	■	☐	-	-	-	-	■	■	☐	-	-	4.8	260	260	8	8	4-5	3	L	5	8	7-8	4-5	4-5	4	-	0.29	0.29	1.50	0.24	-	-	■	-	
Irgalite® Red K 4170 FP old: Irgalite® Red 2BP C.I. Pigment Red 48:2** BONA (Ca)	-			■	■	☐	-	-	-	-	■	■	■	-	-	5	220	240	7	6	-	-	L	5	7	6	-	-	-	-	0.13	0.12	1.57	0.18	-	■	■	-	-	
Irgalite® Rubine K 4270 FP old: Irgalite® Rubine 4BP C.I. Pigment Red 57:1** BONA (Ca)	-			■	■	☐	-	-	-	-	■	■	■	-	-	5	240	260	6-7	4-5	-	-	L	5	6	4	-	-	-	-	0.15	0.10	1.50	0.17	-	■	■	-	-	
Irgalite® Rubine K 4275 FP old: Irgalite® Rubine 4BFP C.I. Pigment Red 57:1** BONA (Ca)	-			■	■	☐	-	-	-	-	■	■	■	-	-	5	220	240	6-7	4	-	-	L	5	6-7	6	-	-	-	-	0.15	0.10	1.57	0.22	-	-	-	-	-	
Cinquasia® Red K 4330 old: Cinquasia® Red B RT-195-D Quinacridone	-			■	■	■	☐	-	☐	-	-	■	■	■	☐	-	5	290	300	8	8	4	-	L	5	8	8	5	4-5	4-5	4	0.30	0.29	1.59	0.20	-	■	-	-	-

The color shade is indicative. The actual shade in use depends on the formulation and may vary.  
\* Product that has been evaluated with BASF's Sustainable Solution Steering method and contributes substantially to sustainability in the value chain.  
\*\* Products with this C.I. number may vary in color and resistance properties in different polymer systems.

# Organic pigments

□ Limited suitability ■ Recommended

Product	Sustainability Accelerator*	Full shade (FS)	White reduction (WR)	Applications														Application performance										Physical properties				Available preparations							
				General											Fibers			HDPE					PVC-p					Physical properties				Available preparations							
				PVC	PO	PS	ABS	PA6	PET	PC	PMMA	Rubber	PUR	PP	PET	PA	Migration FS 0.1%	Heat FS 0.1%	Heat WR 1:10	Light FS 0.1%	Light WR 1:10	Weather (3,000 h) FS 0.1%	Weather (3,000 h) WR 1:10	Warping	Migration FS 0.1%	Light FS 0.1%	Light WR 1:10	Hot light (600 kcal) FS 0.1%	Hot light (600 kcal) WR 1:10	Weather (5,000 h) FS 0.1%	Weather (5,000 h) WR 1:10	1/3 ISD in HDPE (1% TiO <sub>2</sub> )	1/3 ISD in PVC (1% TiO <sub>2</sub> )	Density	Bulk density	Eupden® PE	Microlen® MC	Micranyl® Q	Microlith® KP
Cinquasia® Pink K 4410 old: Cromophthal® Pink 2000 C.I. Pigment Red 122 Quinacridone	-			■	■	■	■	-	□	-	□	■	■	□	□	□	5	300	300	8	8	4-5	3-4	L	5	8	8	5	5	4-5	4-5	0.20	0.20	1.50	0.10	■	-	-	-
Cinquasia® Pink K 4430 FP old: Cromophthal® Pink PT C.I. Pigment Red 122 Quinacridone	-			■	■	■	■	-	□	-	□	■	■	■	■	■	5	300	300	8	8	4-5	3-4	L	5	8	7-8	5	5	4-5	4-5	0.20	0.19	1.49	0.15	-	■	-	-
Cinquasia® Magenta K 4535 FP old: Cromophthal® Magenta P C.I. Pigment Red 202 Quinacridone	-			■	■	■	■	■	■	-	□	■	■	■	■	■	5	300	300	8	8	4	3	L	5	8	7-8	5	4-5	4-5	4	0.23	0.20	1.67	0.14	-	■	-	■
Cinquasia® Violet K 5350 FP old: Cromophthal® Violet RP C.I. Pigment Violet 19 Quinacridone	-			■	■	■	□	-	□	-	-	■	■	■	■	-	5	300	300	8	7-8	4	-	L	5	7-8	7	4-5	4	4	3	0.23	0.15	1.49	0.17	-	-	■	-
Pallogen® Red Violet K 5411 old: Pallogen® Red Violet K 5011 C.I. Pigment Violet 29 Perylene	■			■	■	■	□	□	□	■	■	■	■	■	■	■	5	300	300	8	8	4	3	H	5	8	8	5	5	5	3-4	0.18	0.06	1.60	0.23	-	-	-	-
Cromophthal® Violet K 5700 old: Cromophthal® Violet B C.I. Pigment Violet 37 Dioxazine	-			■	■	■	-	-	□	-	-	■	■	□	-	-	4.9	280	260	8	7-8	4-5	3	L	5	7-8	6-7	4-5	-	3-4	-	0.09	0.07	1.32	0.38	-	■	■	■
Cromophthal® Violet K 5800 old: Cromophthal® Violet GT C.I. Pigment Violet 23 Dioxazine	-			■	□	□	-	□	□	-	-	■	■	■	-	■	3-4	240	260	7-8	3-4	4	3-4	L	4.3	8	6-7	4-5	3	4-5	-	0.07	0.06	1.42	0.35	-	■	-	-

The color shade is indicative. The actual shade in use depends on the formulation and may vary.  
\* Product that has been evaluated with BASF's Sustainable Solution Steering method and contributes substantially to sustainability in the value chain.

# Organic pigments

□ Limited suitability ■ Recommended

Product	Sustainability Accelerator*	Full shade (FS)	White reduction (WR)	Applications												Application performance										Physical properties				Available preparations										
				General									Fibers			HDPE					PVC-p																			
				PVC	PO	PS	ABS	PA6	PET	PC	PMMA	Rubber	PUR	PP	PET	PA	Migration FS 0.1%	Heat FS 0.1%	Heat WR 1:10	Light FS 0.1%	Light WR 1:10	Weather (3,000 h) FS 0.1%	Weather (3,000 h) WR 1:10	Warping	Migration FS 0.1%	Light FS 0.1%	Light WR 1:10	Hot light (600 kcal) FS 0.1%	Hot light (600 kcal) WR 1:10	Weather (5,000 h) FS 0.1%	Weather (5,000 h) WR 1:10	1/3 ISD in HDPE (1% TiO <sub>2</sub> )	1/3 ISD in PVC (1% TiO <sub>2</sub> )	Density	Bulk density	Eupolen® PE	Microlen® MC	Micranyl® Q	Microlith® KP	
Heliogen® Blue K 6860 C.I. Pigment Blue 15 Cu-phthalocyanine	-	■	■	■	□	-	-	-	-	-	-	-	■	□	-	-	-	5	220	220	8	8	5	5	H	5	8	8	5	3-4	3-4	3-4	0.09	0.08	1.62	0.21	-	-	-	-
Heliogen® Blue K 6902 C.I. Pigment Blue 15:1 Cu-phthalocyanine	-	■	■	■	■	■	■	■	■	■	-	-	-	5	300	300	8	8	5	5	H	5	8	8	5	4-5	4-5	4	0.11	0.09	1.60	0.32	■	-	-	-				
Heliogen® Blue K 6907 C.I. Pigment Blue 15:1 Cu-phthalocyanine	-	■	■	■	■	■	■	■	■	■	■	■	■	5	300	300	8	8	5	5	H	5	8	8	4-5	4-5	5	4	0.10	0.08	1.60	0.32	■	■	-	-				
Heliogen® Blue K 6911 / K 6912 FP old: Heliogen® Blue K 6911 D / FP C.I. Pigment Blue 15:1 Cu-phthalocyanine	-	■	■	■	■	■	■	■	■	■	■	■	■	5	300	300	8	8	5	5	H	5	8	8	4-5	4-5	5	4	0.09	0.07	1.60	0.33	-	■	■	-				
Heliogen® Blue K 6916 C.I. Pigment Blue 15:1 Cu-phthalocyanine	-	□	■	□	□	■	■	□	□	■	■	■	■	5	260	280	7-8	7-8	4-5	4-5	H	4.5	8	6-7	5	3-4	5	4	0.09	0.08	1.60	0.20	-	■	-	-				
Heliogen® Blue K 7090 FP C.I. Pigment Blue 15:3 Cu-phthalocyanine	-	■	■	■	■	■	■	■	■	■	■	■	■	5	280	280	8	8	5	5	H	5	8	8	4-5	5	4-5	4-5	0.12	0.09	1.60	0.20	■	-	■	■				
Heliogen® Blue K 7096 old: Irgalite® Blue GBP C.I. Pigment Blue 15:3 Cu-phthalocyanine	-	■	■	■	■	■	■	■	■	■	■	■	■	5	300	300	8	8	5	5	H	5	7-8	7-8	4-5	4-5	4-5	3-4	0.11	0.09	1.60	0.32	-	-	-	-				
Heliogen® Blue K 7104 LW C.I. Pigment Blue 15:4 Cu-phthalocyanine	■	■	■	■	■	■	■	■	■	■	-	-	-	5	300	300	8	8	5	5	L	5	8	8	4-5	4	4	3-4	0.11	0.09	1.60	0.20	■	-	-	-				

The color shade is indicative. The actual shade in use depends on the formulation and may vary.  
\* Product that has been evaluated with BASF's Sustainable Solution Steering method and contributes substantially to sustainability in the value chain.

# Organic pigments

□ Limited suitability ■ Recommended

Product	Sustainability Accelerator*	Full shade (FS)	White reduction (WR)	Applications														Application performance										Physical properties				Available preparations							
				General										Fibers				HDPE					PVC-p																
				PVC	PO	PS	ABS	PA6	PET	PC	PMMA	Rubber	PUR	PP	PET	PA	Migration FS 0.1%	Heat FS 0.1%	Heat WR 1:10	Light FS 0.1%	Light WR 1:10	Weather (3,000 h) FS 0.1%	Weather (3,000 h) WR 1:10	Warping	Migration FS 0.1%	Light FS 0.1%	Light WR 1:10	Hot light (600 kJ) FS 0.1%	Hot light (600 kJ) WR 1:10	Weather (5,000 h) FS 0.1%	Weather (5,000 h) WR 1:10	1/3 ISD in HDPE (1% TiO <sub>2</sub> )	1/3 ISD in PVC (1% TiO <sub>2</sub> )	Density	Bulk density	Eupolen® PE	Microlen® MC	Micranyl® Q	Microlith® KP
Hellogen® Green K 8730 / FP C.I. Pigment Green 7 Cu-phthalocyanine	-			■	■	■	■	□	□	■	■	■	■	■	■	■	5	300	300	8	8	5	5	H	5	8	8	5	5	5	4-5	0.24	0.19	2.10	0.30	■	■	■	■
Hellogen® Green K 9360 C.I. Pigment Green 36 Cu-phthalocyanine	-			■	■	■	□	□	■	■	■	■	□	□	□	5	300	300	8	8	5	5	H	5	8	8	5	5	5	4-5	0.30	0.26	2.10	0.40	■	-	-	-	
Lumogen® Black FK 4280 C.I. Pigment Black Perylene	■			■	■	■	■	■	■	■	■	□	□	□	□	□	4.8	300	300	7-8	7-8	4-5	4-5	H	5	8	8	5	5	4-5	3-4	0.16	0.12	1.63	0.13	-	-	-	-
Lumogen® Black FK 4281 C.I. Pigment Black Perylene	■			■	■	■	■	■	■	■	■	□	□	□	□	□	4.8	300	300	7-8	7-8	4-5	4-5	H	5	7	7	5	4-5	4	3-4	0.24	0.18	1.71	0.13	-	-	-	-

The color shade is indicative. The actual shade in use depends on the formulation and may vary.  
\* Product that has been evaluated with BASF's Sustainable Solution Steering method and contributes substantially to sustainability in the value chain.



## Inorganic pigments

The perfect complement to organic pigments, inorganic pigments do offer very robust processing performance even for highly demanding engineering plastics or for warping sensitive applications. Also, as base components or as shading partners, they ensure ultimate durability for most end-uses.

### Key portfolio

Product	Color shade	Chemical type	Key properties
Sicotan®	Yellow – Brown	CICP (Ni, Cr Titanate)	These inorganic, mixed-phase pigments have outstanding fastness to heat, light, weather, chemicals, and solvents – even in very low concentrations. Their exceptionally high heat and chemical resistance makes them suitable for almost all polymer types
Sicopal®	Yellow	Bismuth Vanadate	These inorganic pigments, with their spinel structure, are based on various metal oxides. All have outstanding fastness to light and weather, and most of them achieve the highest heat resistance
	Orange	Sn-titanate	
	Blue – Green	Cobalt pigments	
	Brown – Black	Iron mixed oxides	
Sicotrans®	Red	Iron oxides	These extremely fine and transparent iron oxide red pigments have excellent fastness to heat, light, and weather



# Inorganic pigments

□ Limited suitability    ■ Recommended

Product	Sustainability Accelerator*	Full shade (FS)	White reduction (WR)	Applications												Application performance								Physical properties															
				General											Fibers	HDPE				PVC-p				Density		Bulk density		Available forms											
				PVC	PO	PS	ABS	PA6	PET	PC	PMMA	Rubber	PUR	PP	PET	PA	Migration FS 1%	Heat FS 1%	Heat WR 1:4	Light FS 1%	Light WR 1:4	Weather (3,000 h) FS 1%	Weather (3,000 h) WR 1:4	Warping	Migration FS 1%	Light FS 1%	Light WR 1:4	Hot light (600 kJ) FS 1%	Hot light (600 kJ) WR 1:4	Weather (5,000 h) FS 1%	Weather (5,000 h) WR 1:4	1/3 ISD in PVC (1% TiO <sub>2</sub> )	Density	Bulk density	Powder	Fine granule			
Sicotan® Yellow K 1010 C.I. Pigment Yellow 53 Ni/Sb/Ti oxide	-			■	■	■	■	■	■	■	■	■	■	■	■	■	□	□	□	5	300	300	8	8	5	5	N	5	8	8	5	5	5	5	3.3 (1/9 ISD)	4.50	0.90	■	-
Sicotan® Yellow K 1011 FG C.I. Pigment Yellow 53 Ni/Sb/Ti oxide	■			■	■	■	■	■	■	■	■	■	■	■	■	■	□	□	□	5	300	300	8	8	5	5	N	5	8	8	5	5	5	5	3.1 (1/9 ISD)	4.40	0.80	■	■
Sicotan® Yellow K 2001 FG C.I. Pigment Brown 24 Cr/Sb/Ti oxide	■			■	■	■	■	■	■	■	■	■	■	■	■	■	□	□	□	5	300	300	8	8	5	5	N	5	8	8	5	5	5	5	2.7	4.50	0.60	■	■
Sicotan® Yellow K 2011 C.I. Pigment Brown 24 Cr/Sb/Ti oxide	-			■	■	■	■	■	■	■	■	■	■	■	■	■	□	□	□	5	300	300	8	8	5	5	N	5	8	8	5	5	5	5	3.8	4.50	0.70	■	-
Sicotan® Yellow K 2111 FG C.I. Pigment Brown 24 Cr/Sb/Ti oxide	■			■	■	■	■	■	■	■	■	■	■	■	■	■	□	□	□	5	300	300	8	8	5	5	N	5	8	8	5	5	5	5	3.0	4.40	0.80	■	■
Sicotan® Yellow K 2112 FG C.I. Pigment Brown 24 Cr/Sb/Ti oxide	■			■	■	■	■	■	■	■	■	■	■	■	■	■	□	□	□	5	300	300	8	8	5	5	N	5	8	8	5	5	5	5	3.4	4.40	0.90	■	■
Sicotan® Brown K 2611 C.I. Pigment Yellow 164 Mn/Sb/Ti oxide	-			■	■	■	■	■	■	■	■	■	■	-	■	□	□	□	5	300	300	8	8	5	5	N	5	8	8	5	5	5	5	3.2	4.30	0.90	■	-	
Sicotan® Brown K 2711 C.I. Pigment Yellow 164 Mn/Sb/Ti oxide	-			■	■	■	■	■	■	■	■	■	■	-	■	□	□	□	5	300	300	8	8	5	5	N	5	8	8	5	5	5	5	2.5	4.80	0.90	■	-	

The color shade is indicative. The actual shade in use depends on the formulation and may vary.

\* Product that has been evaluated with BASF's Sustainable Solution Steering method and contributes substantially to sustainability in the value chain.

# Inorganic pigments

□ Limited suitability ■ Recommended





Product	Sustainability Accelerator*	Full shade (FS)	White reduction (WR)	Applications													Application performance								Physical properties													
				General										Fibers			HDPE				PVC-p							Available forms										
				PVC	PO	PS	ABS	PA6	PET	PC	PMMA	Rubber	PUR	PP	PET	PA	Migration FS 1%	Heat FS 1%	Heat WR 1:4	Light FS 1%	Light WR 1:4	Weather (3,000 h) FS 1%	Weather (3,000 h) WR 1:4	Warping	Migration FS 1%	Light FS 1%	Light WR 1:4	Hot light (600 kJ) FS 1%	Hot light (600 kJ) WR 1:4	Weather (5,000 h) FS 1%	Weather (5,000 h) WR 1:4	1/3 ISD in PVC (1% TiO <sub>2</sub> )	Density	Bulk density	Powder	Fine granule		
Sicopal® Yellow K 1120 FG C.I. Pigment Yellow 184 Bismuth vanadate	■	■	■	□	□	□	□	-	-	□	□	□	□	□	□	-	-	-	5	250	260	8	8	5	5	N	5	8	8	-	-	-	-	1.0	4.10	0.80	-	■
Sicopal® Yellow K 1160 FG C.I. Pigment Yellow 184 Bismuth vanadate	-	■	■	□	■	■	□	□	■	■	□	■	■	■	5	280	260	8	8	5	5	N	5	8	8	-	-	-	-	1.6	4.10	0.80	-	■				
Sicopal® Orange K 2430 C.I. Pigment Orange 82 Sn/Zn/Ti oxide	-	■	■	■	■	■	■	■	■	■	■	■	■	■	5	300	300	8	8	5	5	N	5	8	8	5	5	5	5	2.2	4.80	0.75	■	-				
Sicopal® Brown K 2595 C.I. Pigment Yellow 119 Zn/Fe oxide	-	■	■	□	■	■	■	■	■	■	■	■	□	□	□	5	300	300	8	8	5	5	N	5	8	8	-	-	-	-	1.6	5.30	0.70	■	-			
Sicopal® Brown K 2795 FG C.I. Pigment Brown 29 Fe/Cr oxide	■	■	■	■	■	■	■	■	■	■	■	■	□	□	□	5	300	300	8	8	5	5	N	5	8	8	-	-	-	-	0.5	5.20	0.50	-	■			
Sicopal® Blue K 6210 C.I. Pigment Blue 28 Co/Al oxide	-	■	■	■	■	■	■	■	■	■	■	■	□	□	□	5	300	300	8	8	5	5	N	5	8	8	5	5	5	5	3.4	4.00	0.50	■	-			
Sicopal® Blue K 6310 C.I. Pigment Blue 28 Co/Al oxide	-	■	■	■	■	■	■	■	■	■	■	■	□	□	□	5	300	300	8	8	5	5	N	5	8	8	5	5	5	5	3.1	4.50	0.40	■	-			
Sicopal® Blue K 7210 C.I. Pigment Blue 36 Co/Al/Cr oxide	-	■	■	■	■	■	■	■	■	■	■	■	□	□	□	5	300	300	8	8	5	5	N	5	8	8	5	5	5	5	2.6	4.50	0.50	■	-			

The color shade is indicative. The actual shade in use depends on the formulation and may vary.  
\* Product that has been evaluated with BASF's Sustainable Solution Steering method and contributes substantially to sustainability in the value chain.



# Inorganic pigments

□ Limited suitability ■ Recommended

Product	Sustainability Accelerator*	Fujii shade (FS)	White reduction (WR)	Applications													Application performance								Physical properties												
				General										Fibers			HDPE				PVC-p				1/3 ISD in PVC (1% TiO <sub>2</sub> )	Density	Bulk density	Available forms									
				PVC	PO	PS	ABS	PA6	PET	PC	PMMA	Rubber	PUR	PP	PET	PA	Migration FS 1%	Heat FS 1%	Heat WR 1:4	Light FS 1%	Light WR 1:4	Weather (3,000 h) FS 1%	Weather (3,000 h) WR 1:4	Warping				Migration FS 1%	Light FS 1%	Light WR 1:4	Hot light (600 kJ) FS 1%	Hot light (600 kJ) WR 1:4	Weather (5,000 h) FS 1%	Weather (5,000 h) WR 1:4	Powder	Fine granule	
Sicotrans® Red K 2819 C.I. Pigment Red 101 Iron oxide	-			□	■	■	■	■	■	■	■	■	■	■	□	□	□	5	300	300	8	8	5	5	N	5	8	8	-	-	-	-	0.58	4.40	0.30	■	-
Sicotrans® Red K 2915 C.I. Pigment Red 101 Iron oxide	-			□	■	■	■	■	■	■	■	■	■	■	□	□	□	5	300	300	8	8	5	5	N	5	8	8	-	-	-	-	0.27	5.10	0.50	■	-

The color shade is indicative. The actual shade in use depends on the formulation and may vary.  
\* Product that has been evaluated with BASF's Sustainable Solution Steering method and contributes substantially to sustainability in the value chain.

# Contacts

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G-EDP

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