

Pigments and additives for powder coatings

Product selection guide

 **BASF**

The Chemical Company

Pigment color space: Yellow

Our extensive range of yellow pigments allows for formulations from high-performance to cost-effective applications and meets the current trend in lead-free formulations. The portfolio consists of quinophthalone, benzimidazolone, isoindoline and isoindolinone organic pigments for high chroma and tinting strength. Additionally our inorganic pigments bring to the formulator high opacity, chemical resistance and high temperature stability. Here we offer the bismuth vanadate range, CICPs and also hybrids.

Current name	Former name	Chemistry	Colour Index	Density (g/cm ³)	Temperature stability		
					20 min 180 °C ΔE*	10 min 210 °C ΔE*	10 min 240 °C ΔE*

recommended products for powder coatings

Paliotol® Yellow L 0962 HD		quinophthalone	P.Y. 138	2.0	< 2	< 2	2 - 4
Sicotan® Yellow L 1010		Ni/Sb/Ti oxide	P.Y. 53	4.5	< 2	< 2	< 2
Cromophtal® Yellow L 1061 HD	Irgazin® Yellow 2088	benzimidazolone	P.Y. 151	1.5	< 2	< 2	2 - 4
Sicopal® Yellow L 1120		bismuth vanadate	P.Y. 184	5.3	< 2	< 2	2 - 4
Paliotan® Yellow L 1145		hybrid	-	3.9	< 2	2 - 4	4 - 6
Paliotol® Yellow L 1155		isoindoline	P.Y. 185	1.5	2 - 4	4 - 6	> 6
Sicopal® Yellow L 1600		bismuth vanadate	P.Y. 184	5.8	< 2	2 - 4	4 - 6
Paliotan® Yellow L 1645		hybrid	-	5.7	< 2	2 - 4	4 - 6
Paliotan® Yellow L 1945		hybrid	-	5.0	< 2	< 2	4 - 6
Paliotan® Yellow L 2045		hybrid	-	3.6	< 2	< 2	4 - 6
Irgazin® Yellow L 2060	Irgazin® Yellow 3RLTN	isoindolinone	P.Y. 110	1.8	< 2	< 2	< 2
Sicotan® Yellow L 2110		Cr/Sb/Ti oxide	P.Br. 24	4.3	< 2	< 2	< 2
Paliotol® Yellow L 2146 HD		isoindoline	P.Y. 139	1.7	< 2	< 2	2 - 4

products that find application in powder coatings

Cromophtal® Yellow L 1060 HD	Paliotol® Yellow L 1060 HD	benzimidazolone	P.Y. 151	1.5	< 2	< 2	2 - 4
Cromophtal® Yellow L 1084 HD	Irgazin® Yellow 2084	benzimidazolone	P.Y. 154	1.5	< 2	< 2	2 - 4
Sicopal® Yellow L 1100		bismuth vanadate	P.Y. 184	5.3	< 2	< 2	2 - 4
Paliotol® Yellow L 1820		isoindoline	P.Y. 139	1.6	2 - 4	4 - 6	> 6
Sicotan® Yellow L 1910		Cr/Sb/Ti oxide	P.Br. 24	4.4	< 2	< 2	< 2
Paliotol® Yellow L 1970		isoindoline	P.Y. 139	1.7	< 2	< 2	2 - 4
Sicotan® Yellow L 2010		Cr/Sb/Ti oxide	P.Br. 24	4.4	< 2	< 2	2 - 4
Paliotol® Yellow L 2140 HD		isoindoline	P.Y. 139	1.7	< 2	< 2	2 - 4

density (g/cm³): determination according to ISO 787-10
temperature stability: assessed as total color difference
ΔE* with reference to 20 minutes 160 °C

Ease of dispersion	Fastness to weathering (2000 h Xenotest®1)						Hiding power	Tinting strength	Amine / amide resistance
	inorganic		organic		hybrids				
	full shade	1:1	full shade	1:10	full shade	1:3			
3	-	-	4 - 5	3	-	-	low	fair	fair
2	5	5	-	-	-	-	fair	low	high
3	-	-	4 - 5 d	3	-	-	fair	fair	low
3	5	5	-	-	-	-	high	low	high
3	-	-	-	-	4 - 5	4	high	fair	fair
1	-	-	-	-	-	-	low	high	low
3	5	5	-	-	-	-	high	low	high
3	-	-	-	-	4 - 5	4	high	fair	low
3	-	-	-	-	5	5	high	fair	low
3	-	-	-	-	4 - 5	4	high	fair	low
3	-	-	4 - 5 d	4 - 5	-	-	low	high	high
2	5	5	-	-	-	-	high	low	high
3	-	-	4 - 5	3 - 4	-	-	fair	fair	low
2	-	-	4 - 5	3	-	-	low	fair	low
2	-	-	4 - 5	4	-	-	low	high	fair
3	5	5	-	-	-	-	high	low	high
1	-	-	-	-	-	-	low	high	low
2	5	5	-	-	-	-	high	low	high
2	-	-	4 - 5	3	-	-	fair	high	low
2	5	5	-	-	-	-	high	low	high
3	-	-	4 - 5	3 - 4	-	-	fair	fair	low

ease of dispersion: 1 = very easily dispersible, 2 = easily dispersible, 3 = not easily dispersible

fastness to weathering: is based on 2000 h Xenotest®1; assessment according to the gray scale, ISO 105-A02

Pigment color space: Orange

These multi-purpose pigments find applications across many industries and have been found to have value and performance in the powder coating market, they consist of DPP pigments and pyrazolone-quinazolone types to bring enhanced chromaticity. The inorganic Sn/Zn/Ti oxide as a new development brings high opacity coupled with outstanding durability and heat resistance.

Current name	Former name	Chemistry	Colour Index	Density (g/cm ³)	Temperature stability		
					20 min 180 °C ΔE*	10 min 210 °C ΔE*	10 min 240 °C ΔE*

recommended products for powder coatings

Sicopal® Orange L 2430		Sn/Zn/Ti oxide	P.O. 82	4.9	< 2	< 2	< 2
Paliotol® Orange L 2930 HD		pyrazolo-quinazolone	P.O. 67	1.8	2 - 4	4 - 6	> 6
Paliotan® Orange L 2935		hybrid	-	2.7	2 - 4	4 - 6	> 6

products that find application in powder coatings

Irgazin® Orange L 2890 HD	Cromophtal® Orange 2G	isoindolinone	P.O. 61	1.7	< 2	< 2	2 - 4
Irgalite® Orange L 2970	Irgalite® Orange MOR	dianisidine	P.O. 16	1.4	2 - 4	4 - 6	> 6
Irgazin® Orange L 2990 HD	Irgazin® DPP Orange RA ¹	diketo-pyrrolo-pyrrole	P.O. 73	1.3	< 2	< 2	2 - 4
Irgazin® Orange L 3250 HD	Irgazin® Orange 2037	hybrid	-	1.6	< 2	< 2	2 - 4

¹ requires testing if used in combination with other DPP pigments

density (g/cm³): determination according to ISO 787-10
temperature stability: assessed as total color difference ΔE* with reference to 20 minutes 160 °C

Ease of dispersion	Fastness to weathering (2000 h Xenotest®1)						Hiding power	Tinting strength	Amine / amide resistance
	inorganic		organic		hybrids				
	full shade	1:1	full shade	1:10	full shade	1:3			
3	4 - 5	4 - 5	-	-	-	-	high	low	high
3	-	-	4	2	-	-	fair	fair	low
2	-	-	-	-	4	2	high	fair	low
2	-	-	4 - 5	4	-	-	low	fair	low
2	-	-	4	2	-	-	fair	high	low
2	-	-	4 - 5	4	-	-	low	high	low
2	-	-	-	-	4 - 5	4	fair	high	low

ease of dispersion: 1 = very easily dispersible, 2 = easily dispersible, 3 = not easily dispersible

fastness to weathering: is based on 2000 h Xenotest®1; assessment according to the gray scale, ISO 105-A02

Pigment color space: Red

These pigment ranges were designed for paint applications and include DPP types for high chromaticity and high tinting strength, perylene reds for high durability and chemical resistance, quinacridone for outstanding durability and temperature stability. Hybrid pigments bringing together opacity and mid to high performance with a value approach.

Current name	Former name	Chemistry	Colour Index	Density (g/cm ³)	Temperature stability		
					20 min 180 °C ΔE*	10 min 210 °C ΔE*	10 min 240 °C ΔE*

recommended products for powder coatings

Irgazin® Red L 3670 HD	Irgazin® Red 2030	diketo-pyrrolo-pyrrole	P.R. 254	1.7	< 2	2 - 4	2 - 4
Paliotan® Red L 3745		hybrid	-	3.0	< 2	< 2	< 2
Cinquasia® Red L 4100	Cinquasia® Red Y RT-759-D	quinacridone	P.V. 19	1.5	< 2	< 2	< 2
Paliogen® Red K 4180		perylene	P.R. 179	1.5	< 2	< 2	< 2

products that find application in powder coatings

Irgazin® Scarlet L 3550 HD	Irgazin® DPP Scarlet EK	diketo-pyrrolo-pyrrole	P.R. 255	1.4	< 2	< 2	2 - 4
Irgazin® Red L 3600 HD	Irgazin® Red 2031	diketo-pyrrolo-pyrrole	-	1.4	< 2	2 - 4	2 - 4
Irgazin® Red L 3660 HD	Irgazin® DPP Red B0	diketo-pyrrolo-pyrrole	P.R. 254	1.6	< 2	< 2	2 - 4
Irgazin® Red L 3680 HD	Irgazin® Red 2029	hybrid	-	1.5	< 2	< 2	2 - 4
Irgazin® Red L 3685 HD	Irgazin® Red 2027	hybrid	-	1.6	< 2	< 2	2 - 4
Irgazin® Red L 4010 HD	Irgazin® DPP Red Ultra Opaque	diketo-pyrrolo-pyrrole	P.R. 264	1.4	< 2	< 2	2 - 4
Irgazin® Rubine L 4020	Irgazin® DPP Rubine TRI	diketo-pyrrolo-pyrrole	P.R. 264	1.4	< 2	< 2	2 - 4
Irgazin® Rubine L 4025	Irgazin® DPP Rubine TR	diketo-pyrrolo-pyrrole	P.R. 264	1.4	< 2	< 2	2 - 4

Pigment color space: Violet and Bordeaux

These pigment ranges were designed for paint applications and include quinacridone and dioxazine types for high chromaticity, durability and as shading components with organic reds. In addition, because of their high tinting strength, they offer a good value-in-use approach.

Current name	Former name	Chemistry	Colour Index	Density (g/cm ³)	Temperature stability		
					20 min 180 °C ΔE*	10 min 210 °C ΔE*	10 min 240 °C ΔE*

recommended products for powder coatings

Cinquasia® Magenta L 4400	Irgazin® Magenta 2012	quinacridone	P.R. 282	1.4	< 2	< 2	2 - 4
Cinquasia® Violet L 5120	Cinquasia® Violet R NRT-201-D	quinacridone	P.V. 19	1.5	< 2	< 2	< 2
Cromophtal® Violet L 5800	Cromophtal® Violet GT	dioxazine	P.V. 23	1.8	< 2	2 - 4	2 - 4

density (g/cm³): determination according to ISO 787-10
temperature stability: assessed as total color difference
ΔE* with reference to 20 minutes 160 °C

Ease of dispersion	Fastness to weathering (2000 h Xenotest®1)						Hiding power	Tinting strength	Amine / amide resistance
	inorganic		organic		hybrids				
	full shade	1:1	full shade	1:10	full shade	1:3			

3	-	-	4 - 5	3 - 4	-	-	low	high	fair
3	-	-	-	-	5	4	high	fair	high
2	-	-	4 - 5	4 - 5	-	-	fair	fair	fair
2	-	-	5	5	-	-	fair	high	high

2	-	-	4 - 5	4	-	-	high	high	fair
3	-	-	4 - 5	4	-	-	fair	high	fair
3	-	-	4 - 5	4	-	-	fair	high	fair
3	-	-	-	-	4 - 5	4	low	high	low
3	-	-	-	-	4 - 5	4	low	high	low
3	-	-	4 - 5	3 - 4	-	-	high	high	fair
2	-	-	4 - 5	4	-	-	low	high	fair
2	-	-	4 - 5	4	-	-	low	high	fair

Ease of dispersion	Fastness to weathering (2000 h Xenotest®1)						Hiding power	Tinting strength	Amine / amide resistance
	inorganic		organic		hybrids				
	full shade	1:1	full shade	1:10	full shade	1:3			

2	-	-	4 - 5	4 - 5	-	-	low	high	fair
3	-	-	4 - 5	4 - 5	-	-	low	high	high
1	-	-	4 - 5	4	-	-	low	high	fair

ease of dispersion: 1 = very easily dispersible, 2 = easily dispersible, 3 = not easily dispersible

fastness to weathering: is based on 2000 h Xenotest®1; assessment according to the gray scale, ISO 105-A02

Pigment color space: Blue and green

These pigment ranges were designed for paint applications and include phthalocyanine blue and green types for high chromaticity, durability and high tinting strength. Indanthrone blue for unique red shift in solid shades. Inorganic cobalt blue for high opacity, chemical resistance and temperature stability required for powder coatings

Current name	Former name	Chemistry	Colour Index	Density (g/cm ³)	Temperature stability		
					20 min 180 °C ΔE*	10 min 210 °C ΔE*	10 min 240 °C ΔE*

recommended products for powder coatings

Heliogen® Blue L 6700 F		ε-phthalocyanine	P.B. 15:6	1.7	< 2	< 2	< 2
Heliogen® Blue K 6907		α-phthalocyanine	P.B. 15:1	1.6	< 2	< 2	< 2
Heliogen® Blue K 6911 D		α-phthalocyanine	P.B. 15:1	1.6	< 2	< 2	< 2
Heliogen® Blue K 7090		β-phthalocyanine	P.B. 15:3	1.6	< 2	< 2	< 2
Heliogen® Green L 8731		phthalocyanine	P.G. 7	2.1	< 2	< 2	< 2
Heliogen® Green K 9360		phthalocyanine	P.G. 36	2.1	< 2	< 2	< 2

products that find application in powder coatings

Sicopal® Blue L 6210		cobalt blue	P.B. 28	4.0	< 2	< 2	< 2
Paliogen® Blue L 6385		indanthrone	P.B. 60	1.8	< 2	< 2	< 2
Heliogen® Blue L 7081 D		α-phthalocyanine	P.B. 15:2	1.6	< 2	< 2	< 2
Heliogen® Blue L 7085		β-phthalocyanine	P.B. 15:3	1.5	< 2	< 2	< 2
Heliogen® Blue L 7087	Irgalite® Blue PG	β-phthalocyanine	P.B. 15:3	1.6	< 2	< 2	< 2
Heliogen® Green L 8735		phthalocyanine	P.G. 7	2.1	< 2	< 2	< 2
Heliogen® Green L 9361		phthalocyanine	P.G. 36	2.9	< 2	< 2	< 2
Sicopal® Green K 9610		cobalt green	P.G. 50	4.9	< 2	< 2	< 2

Pigment color space: Black

Specialty pigments selected for heat management consisting of perylene and chromium iron oxide types

Current name	Former name	Chemistry	Colour Index	Density (g/cm ³)	Temperature stability		
					20 min 180 °C ΔE*	10 min 210 °C ΔE*	10 min 240 °C ΔE*

recommended products for powder coatings

Sicopal® Black L 0095		iron chrome oxide	P.Br. 29	5.2	< 2	< 2	< 2
Paliogen® Black L 0086		perylene	P.BI. 32	1.5	< 2	2 - 4	> 6

density (g/cm³): determination according to ISO 787-10
temperature stability: assessed as total color difference ΔE* with reference to 20 minutes 160 °C

Ease of dispersion	Fastness to weathering (2000 h Xenotest®¹)						Hiding power	Tinting strength	Amine / amide resistance
	inorganic		organic		hybrids				
	full shade	1:1	full shade	1:10	full shade	1:3			

2	-	-	4 - 5	4 - 5	-	-	low	high	high
3	-	-	4 - 5	4 - 5	-	-	low	high	high
3	-	-	4 - 5	4 - 5	-	-	low	high	high
3	-	-	4 - 5	4 - 5	-	-	low	high	high
3	-	-	4 - 5	4 - 5	-	-	low	high	high
3	-	-	4 - 5	4 - 5	-	-	low	high	high

1	5	5	-	-	-	-	high	low	high
1	-	-	4 - 5	4 - 5	-	-	low	high	high
2	-	-	4 - 5	4 - 5	-	-	low	high	high
2	-	-	4 - 5	4 - 5	-	-	low	high	high
2	-	-	4 - 5	4 - 5	-	-	low	high	high
2	-	-	4 - 5	4 - 5	-	-	low	high	high
2	-	-	4 - 5	4 - 5	-	-	low	high	high
1	5	5	-	-	-	-	high	low	high

Ease of dispersion	Fastness to weathering (2000 h Xenotest®¹)						Hiding power	Tinting strength	Amine / amide resistance
	inorganic		organic		hybrids				
	full shade	1:1	full shade	1:10	full shade	1:3			

2	5	5	-	-	-	-	high	low	high
1	-	-	4 - 5	3	-	-	fair	high	high

ease of dispersion: 1 = very easily dispersible, 2 = easily dispersible, 3 = not easily dispersible

fastness to weathering: is based on 2000 h Xenotest®¹; assessment according to the gray scale, ISO 105-A02

Effect pigments for exterior application

Transparent effects	Particle size in µm	Semi-opaque effects	Particle size in µm
Magnapearl® Exterior CFS 3103	2 - 10	Mearlin® Exterior CFS Fine Brass 2323V	4 - 32
Mearlin® Exterior CFS Fine Pearl 1303V	4 - 32	Mearlin® Exterior CFS Super Brass 2323Z	6 - 48
Mearlin® Exterior Fine Pearl 139V	4 - 32	Lumina® Exterior Brass 2323D	10 - 48
Magnapearl® Exterior CFS 1103	8 - 48	Mearlin® Exterior CFS Super Bright Orange 3333Z	6 - 48
Mearlin® Exterior Bright Silver 139Z	6 - 48	Mearlin® Exterior CFS Fine Bronze 2503V	4 - 32
Mearlin® Exterior CFS Bright Silver 1303Z	10 - 48	Mearlin® Exterior CFS Super Bronze 2503Z	6 - 48
Lumina® Exterior Pearl Radiance 1303D	10 - 48	Mearlin® Exterior CFS Micro Copper 3503M	2 - 24
Mearlin® Exterior Bright White 139X	6 - 48	Mearlin® Exterior CFS Fine Copper 3503V	4 - 32
Mearlin® Exterior Sparkle 139P	10 - 110	Mearlin® Exterior CFS Super Copper 3503Z	6 - 48
Mearlin® Exterior CFS Micro Gold 2303M	2 - 10	Lumina® Exterior Copper 3503D	10 - 48
Mearlin® Exterior CFS Fine Gold 2303V	4 - 32	Mearlin® Exterior CFS Micro Russet 4503M	2 - 24
Mearlin® Exterior CFS Super Gold 2303Z	4 - 32	Mearlin® Exterior CFS Fine Russet 4503V	4 - 32
Lumina® Exterior Gold 2303D	10 - 48	Mearlin® Exterior CFS Super Russet 4503Z	4 - 32
Mearlin® Exterior CFS Super Orange 3303Z	6 - 48	Lumina® Exterior Russet 4503D	10 - 48
Mearlin® Exterior CFS Micro Red 4303M	2 - 24	Mearlin® Exterior CFS Blue Russet 6503Z	6 - 48
Mearlin® Exterior CFS Fine Red 4303V	4 - 32	Mearlin® Exterior Blue Green 7289Z	6 - 48
Mearlin® Exterior CFS Super Red 4303Z	6 - 48		
Lumina® Exterior Red 4303D	10 - 48		
Mearlin® Exterior CFS Micro Violet 5303M	2 - 24		
Mearlin® Exterior CFS Fine Violet 5303V	4 - 32		
Mearlin® Exterior CFS Super Violet 5303Z	6 - 48		
Mearlin® Exterior CFS Micro Blue 6303M	4 - 32		
Lumina® Exterior Red Blue 6303D	10 - 48		
Lumina® Exterior Aqua Blue 7303D	10 - 48		
Lumina® Exterior Turquoise T 303D	10 - 48		
Mearlin® Exterior CFS Micro Green 8303M	2 - 24		
Mearlin® Exterior CFS Fine Green 8303Z	6 - 48		
Lumina® Exterior Green 8303D	10 - 48		
Lumina® Royal Exterior Blue EH 402 (6803H)	6 - 48		
Glacier™ Exterior Frost White EH 568 (S1303D)	10 - 48		

Effect pigments for general applications

Transparent effects	Particle size in µm	Transparent effects	Particle size in µm
Magnapearl® 3000	2 - 10	Firemist® Gold 9G230L	52 - 188
Magnapearl® 3100	2 - 10	Firemist® Red 9G430L	52 - 188
Mearlin® Satin White 9130F	2 - 10	Firemist® Violet 9G530L	52 - 188
Magnapearl® 2000	5 - 25	Firemist® Blue 9G630L	52 - 188
Magnapearl® 2100	5 - 25	Firemist® Turquoise 9G730L	52 - 188
Magnapearl® 2300	5 - 25	Firemist® Green 9G830L	52 - 188
Magnapearl® 1000	6 - 48	Firemist® Green 9G830L	25 - 125
Magnapearl® 1100	6 - 48	Firemist® Green 9G830L	25 - 125
Magnapearl® 5000	15 - 95	Lumina® Royal Blue EH 627 (9680H)	6 - 48
Magnapearl® 4000	15 - 150	Glacier™ Frost White EH 682 (9S130D)	10 - 48
Mearlin® Micro Gold 9260M	2 - 10		
Lumina® Gold 9Y30D	10 - 48	Semi-opaque effects	Particle size in µm
Mearlin® Sparkle Gold 9220J	10 - 130	Mearlin® Micro Brass 9262M	2 - 10
Mearlin® Super Orange 9330Z	6 - 48	Mearlin® Super Brass 9232Z	6 - 48
Mearlin® Sparkle Orange 9320J	10 - 130	Lumina® Brass 9232D	10 - 48
Lumina® Red 9R30D	10 - 48	Mearlin® Sparkle Brass 9222J	10 - 10 - 130
Mearlin® Sparkle Red 9420J	10 - 130	Mearlin® Micro Bronze 9250M	2 - 10
Mearlin® Super Violet 9530Z	6 - 48	Mearlin® Super Bronze 9250Z	6 - 48
Mearlin® Micro Blue 9660M	2 - 10	Mearlin® Sparkle Bronze 9250J	10 - 130
Lumina® Red Blue 9830D	10 - 48	Mearlin® Micro Copper 9350M	2 - 10
Lumina® Aqua Blue 9A30D	10 - 48	Mearlin® Super Copper 9350Z	6 - 48
Mearlin® Sparkle Blue 9620J	10 - 130	Lumina® Copper 9350D	10 - 48
Lumina® Turquoise 9T30D	10 - 48	Mearlin® Sparkle Copper 9350J	10 - 130
Mearlin® Micro Green 9860M	2 - 10	Mearlin® Micro Russet 9450M	2 - 10
Lumina® Green 9G30D	10 - 48	Mearlin® Super Russet 9450Z	10 - 48
Mearlin® Sparkle Green 9820J	10 - 130	Mearlin® Super Blue Russet 9650Z	6 - 48
Firemist® Pearl 9G130L	52 - 188	Mearlin® Sparkle Russet 9650J	10 - 130

Additives

Product name	CAS	Chemistry	Physical form	Mw [g/mol]	Mp [°C] (Tg [°C])	Automotive & Transportation
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hindered amine light stabilizer (HALS)

Tinuvin® 111 FDL	---	N-alkyl / N-alkyl HALS blend	solid	2300 - 4000	60 - 98 ¹	
Tinuvin® 144	63843-89-0	N-alkyl HALS	solid	685	148 - 152	■
Tinuvin® 152	"191743-75-6	N-OR HALS	solid	757	72 - 76 ¹	■
Tinuvin® 622 SF	65447-77-0	oligomeric N-alkyl HALS	solid	3100 - 4000	57 - 61 ¹	

UVA absorbers

2-(2-hydroxyphenyl)-benzotriazole (BTZ)

Tinuvin® 900	70321-86-7	BTZ	solid	448	138 - 142	■
Tinuvin® 928	73936-91-1	BTZ	solid	442	109 - 113	■

2-hydroxyphenyl-s-triazine (HPT)

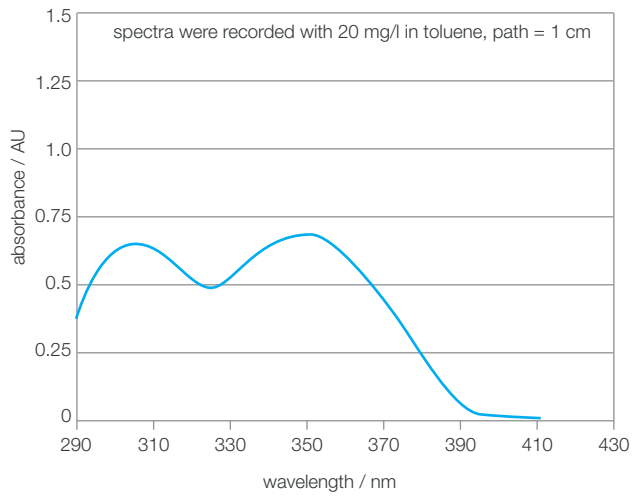
Tinuvin® 405	137658-79-8	HPT	solid	584	73 - 77	■
Tinuvin® 479	204848-45-3	HPT	solid	678	39 - 43 ¹	■

antioxidants

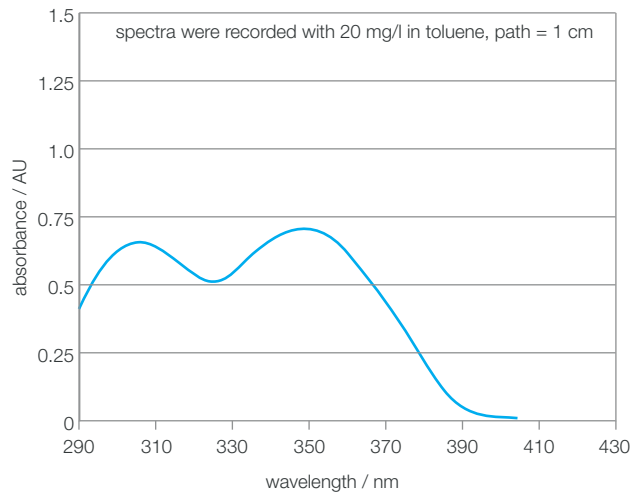
Irganox® 1010	6683-19-8	phenol	solid	1178	110 - 125	■
Irganox® 1035	41484-35-9	phenol	solid	643	63 - 78	
Irganox® 1076	2082-79-3	phenol	solid	531	50 - 55	■
Irganox® 245	36443-68-2	phenol	solid	587	76 - 79	■
Irgafos® 126	26741-53-7	phosphite	solid	604	160 - 175	■
Irgafos® 168	31570-04-4	phosphite	solid	647	183 - 186	■
Irganox® B 900	---	phenol / phosphite AO blend	solid	---	59 - 61	

Industrial	Architectural	
■	■	HALS blend for polyester-based powder coating application with triboelectric charging activity
■	■	antioxidant-functionalized basic HALS with additional triboelectric charging activity for powder coatings
	■	non-migrating N-OR HALS for powder coatings based on glycidyl methacrylate (GMA)
■	■	low-basic HALS with antioxidant properties for polyester-based powder coatings
■	■	medium-performance powder coatings
■	■	medium-performance powder coatings
■		high-performance powder coatings applications based on glycidyl methacrylate (GMA)
■	■	highest extinction especially designed for thin or reduced film applications
■	■	primary antioxidant for powder coatings
■		primary antioxidant for powder coatings
■	■	primary antioxidant for powder coatings
■	■	primary antioxidant for powder coatings
■	■	secondary antioxidant for powder coatings
■	■	secondary antioxidant for powder coatings
■	■	antioxidant blend for powder coatings

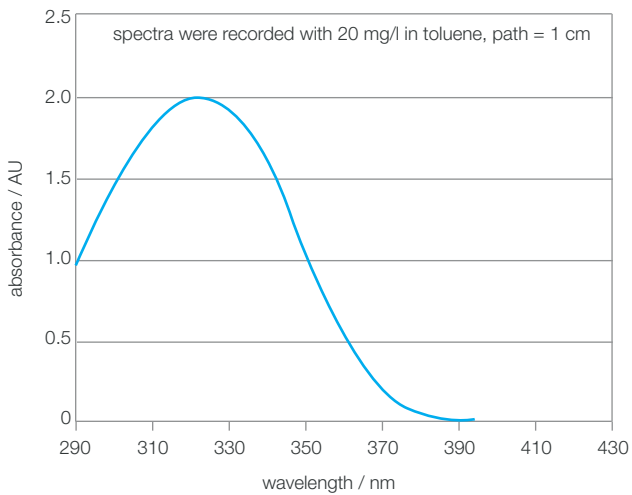
UV-VIS absorbance spectra for UV absorbers



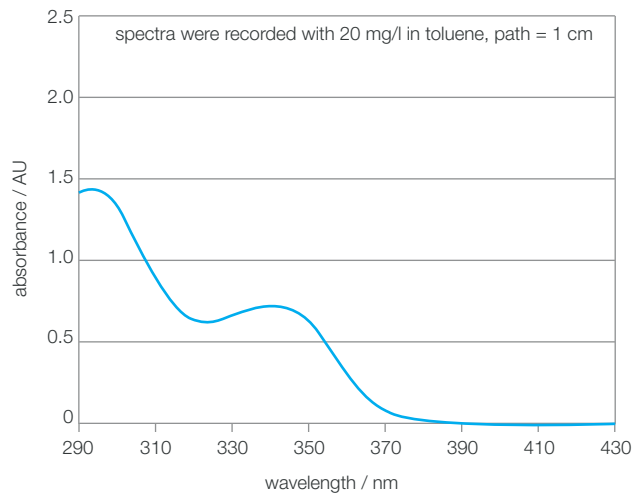
— Tinuvin® 928



— Tinuvin® 900



— Tinuvin® 479



— Tinuvin® 405



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