

Products from FINELAND CHEM (泛成化工产品)

On the following pages we provide you with a general overview of our organic colorants for the plastics industry indicating their recommended uses in the main fields of application.

在下页我们将列出塑料工业用的有机染料，同时列出它们的主要应用领域的通用情况。

Symbol key(符号代表):

○=Recommended(推荐)

○=Potential Use(潜在应用)

X=Not Recommended(不推荐)

We would however point out that these recommendations are general guidelines that are intended to make it easier to select suitable products from our range of colorants.

需要指出，这些推荐用途仅作为更有效地从我们染料产品中选择合适品种的指南。

Technical Data and Physical Properties (技术参数及理化指标)

Heat stability(耐热性) Quoted in °C

The heat stability is determined according to DIN 12877 on a white reduction (organic pigments 1:10) in PE-HD in an injection-molding machine. The temperature is raised from 200°C (392°F) to 300°C (572°F) in increments of 20°C (68°F) with a 5-minute dwell time. The heat stability is the highest temperature at which the color difference ΔE compared with a PE-HD plaque formed at 200°C is not greater than 3 units.

染料耐热性能检测方法依据 DIN 12877，将冲淡色母粒（染料：TiO₂=1:10）置于注塑机中，设定初始温度200℃，以20℃每档进行升温，每档温度停留5分钟，升温至300℃。每档取色板一块，与200℃的色板进行比较，耐热温度取ΔE不大于3的最高温度。

Fastness to migration(耐迁移性)

The fastness to migration is determined in accordance with DIN 14469-4, on a pigmented film(0.2%) in contact with a white-pigmented PVC film. A different concentration may result in a different fastness rating.

耐迁移性能检测方法依据 DIN 14469-4，耐迁移性能通过将着色母粒（染料浓度0.2%）与白色PVC薄膜接触，观察是否产生白色现象，据此评判染料的耐迁移性能。在不同浓度下可能会得到不同的耐迁移值。

Fastness to light(耐光性)

The light fastness in HDPE is determined on injection-molded plaques of approx 3 mm thickness. They are exposed to light in accordance with ISO 4892 and assessed against the 8-step blue wool scale described in the same standard.

染料耐光性能的检测先通过注塑机制成厚度为3mm HDPE色板，色板依据方法ISO 4892进行耐晒实验，耐晒等级分9个等级。

Fastness to migration: 1 to 5.5=Excellent
Light fastness: 1 to 8=Excellent

Viscosity value test(粘度值测试)

Based on GR / T 1723-93, under the condition of the certain temperature, put the prepared ink(water-based ink , solvent-based ink) into viscosity cup, measuring the time of quantitative sample fully flowing from specified diameter hole, recording time, and compared with the standard one, the longer time means the higher viscosity and poor fluidity, while the opposite.

按GR/T 1723-93设计，将制备好的染料，油墨（水性墨，溶剂墨），用粘杯杯，在一定温度条件下，测量定量试样从规定直径的孔全部流出的时间，并与标准值比较，记录时间，时间越长，粘度越高，流动性越差，反之则相反。

Storage stability(储存稳定性)

Based on GR / T 1723-93 , put the prepared ink into the 50°C oven for 7days. Test it 's viscosity value as same method, different value will reflect different performance of Storage stability.

按GR/T 1723-93设计，将制备好的油墨，放置7天在50° 的烘箱里面之后，测试粘度（流动度）方法同上，时间不同反映出不同的储存稳定性性能。

塑料染料色卡 Color of plastic pigment		产品名称 Product name
本色 Full shade	冲淡色 10% shade	
		P3176R 联苯胺黄G P3176R Benzimidazole Yellow G
		P3122 永固黄GR P3122 Permanent Yellow GR
		P3188 永固黄2GS P3188 Permanent Yellow 2GS
		P3177 永固黄2G P3177 Permanent Yellow GG
		P3183 永固黄HR P3183 Permanent Yellow HR
		P3168 颜料黄168 P3168 Monoazo Yellow WGP
		P3193 永固黄HRP P3193 Monoazo Yellow HRP
		P3180 苯并咪唑酮黄HG P3180 Benzimidazolone Yellow
		P3191 亚军黄HGR P3191 Fast Yellow HGR
		P3213 永固橙G P3213 Permanent Orange G
		P3234 永固橙RL P3234 Permanent Orange RL
		P3236 苯并咪唑酮橙HL P3236 Benzimidazolone Orange

染料索引号 C.I.No	牢度性能 Fastness			应用领域 Application						
	耐热性 Heat resistance	耐光性 Light resistance	耐迁移 Migration resistance	PVC	UPVC	HDPE	PP	ABS		
P.Y.12	180	5	2-3	○	○	○	○	○	X	
P.Y.13	200	5-6	3	○	○	○	○	○	X	
P.Y.14	200	5-6	2-3	○	○	○	○	○	X	
P.Y.17	210	6	3	○	○	○	○	○	X	
P.Y.83	220	7-8	5	○	○	○	○	○	X	
P.Y.168	240	7-8	5	○	○	○	○	○	○	
P.Y.183	250	8	5	○	○	○	○	○	○	
P.Y.180	250	8	5	○	○	○	○	○	○	
P.Y.191	250	8	5	○	○	○	○	○	○	
P.O.13	180	6	3-4	○	○	○	○	○	X	
P.O.34	220	8	4	○	○	○	○	○	X	
P.O.36	240	8	5	○	○	○	○	○	○	

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塑料染料色卡 Color of plastic pigment		产品名称 Product name
本色 Full shade	冲淡色 10% shade	
		P3246 苯并咪唑酮橙 DP P3246 Benzimidazolone Orange
		P3581 耐晒大红BRN P3581 FAST SCARLET BRN
		P3582 耐晒橙DRNC P3582 Fast Brilliant Red BRNC
		P3583 耐晒大红BRIS P3583 Fast Red BRIS
		P3531Y 金光红C P3531Y Brilliant Red C
		P3571 立索快红BRK P3571 Lithol Rubine BRK
		P3573 永固红F3RK P3573 Permanent Red F3RK
		P3575 永固红F5RK P3575 Permanent Red F5RK
		P3522 122橙红耐晒红 P3522 Quindo Red 122
		P3554 颜料红254 P3554 DPP Red HO
		P3019 奎宁红耐晒紫 P3019 Quinacridone Violet
		P3028 永固紫RL P3028 Permanent Violet RL

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染料索引号 C.I.No	牢度性能 Fastness			应用领域 Application						
	耐热性 Heat resistance	耐光性 Light resistance	耐迁移 Migration resistance	PVC	UPVC	HDPE	PP	ABS		
P.O.54	250	8	5	○	○	○	○	○	○	
P.R.48:1	200	4	4	○	○	○	○	○	X	
P.R.48:2	220	4	4	○	○	○	○	○	X	
P.R.48:3	220	5	4-5	○	○	○	○	○	X	
P.R.53:1	220	4	4	○	○	○	○	○	X	
P.R.57:1	220	5	4	○	○	○	○	○	X	
P.R.170	220	7-8	4	○	○	○	○	○	X	
P.R.170	220	7-8	4	○	○	○	○	○	X	
P.R.122	280	8	5	○	○	○	○	○	○	
P.R.254	280	8	5	○	○	○	○	○	○	
P.V.19	280	8	5	○	○	○	○	○	○	
P.V.23	250	8	5	○	○	○	○	○	X	

涂料染料色卡 Color of Coating Pigment		产品名称 Product name
本色 Full shade	冲淡色 10% shade	
		C6101 耐晒黄G C6101 Fast Yellow G
		C6103 耐晒柠檬黄100 C6103 Fast yellow 100
		C6134 中铬黄 P.Y.34 C6134 Medium Chrome Yellow
		PR104 耐晒红 Pr104 Molybdale Red
		C6174R 永固黄5GXP C6174R Fast Yellow 5GXP
		C6174G 永固黄5GXP C6174G Fast Yellow 5GXP
		C6183 永固黄HR C6183 Permanent Yellow HR
		P3151 苯并咪唑酮黄H4G P3151 Benzimidazolone Yellow
		P3154 苯并咪唑酮黄H4G P3154 Benzimidazolone Yellow
		P3205 永固橙RN P3205 Permanent Orange RN
		P3213 永固橙G P3213 Permanent Orange G
		P3234 永固橙RL P3234 Permanent Orange RL

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染料索引号 C.I.No	耐光性 Light fastness	应用领域 Application			
		水性涂料 W/W Coating	工业涂料 Industrial paint	粉末涂料 Powder coating	印花色浆 Inkjet printing
P.Y.1	5	○	○	X	○
P.Y.3	5	○	○	X	○
P.Y.34	8	○	○	X	X
P.R.104	8	X	○	X	X
P.Y.74	5	○	○	X	○
P.Y.74	5	○	○	X	○
P.Y.83	7	○	○	○	○
P.Y.151	8	○	○	○	○
P.Y.154	8	○	○	○	○
P.O.5	4	○	○	○	○
P.O.13	4	○	○	○	○
P.O.34	4	○	○	○	○

Please note

The data given in this publication is based on the present state of our knowledge and experience. They do not release any buyer from making his own tests and assessments because of the many possible factors which can affect the use and application of our products. A legal liability for any of the properties or suitability for a specific usage can't be concluded from data. It is the buyer's responsibility to ensure that he complies with all relevant legislations, regulations and prescriptions both in use of our products and subsequent applications. All the data are based on our own tests and for comparison of the different pigments between each other. For all further technical information, please ask for our detailed technical data sheet.

请注意

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