

PK Color Matching Guide

- Recommend color masterbatch, not pigment powder.
- ※ Recommended chemical compositions for different colors:

Colour	Red	Violet	Blue	Green	Yellow
Chemical Composition	Perylene Quinacridone	Quinacridone	Phthalocyanine	Phthalocyanine	Benzimidazolone

- The additives in the same chemical pigment will also vary, so it is necessary to choose the right pigment.

- During color matching, proceed with normal injection molding production. In case of abnormalities or after production ends, immediately purge the machine and empty the barrel.
- If gel-like cross-linking is observed in the molten resin during injection molding, promptly clean the barrel.
- Recommended materials for injection machine purging: PCTG (SK Chemicals JN-100), high-viscosity PP (Hyosung R200P), GPPS, and HDPE.

➤ Colorant Consultation:

Clariant (<https://www.clariant.com>), DIC (<https://www.dic-global.com/en/>)

➤ Masterbatch (MB) Consultation: Avient (<https://www.avient.com>)

- For PK Masterbatch production, the M930 Grade is recommended. LLDPE is suggested as the base resin.

Applicability Rating for Color Matching

●: Optimal, ○: Suitable, △: Acceptable, ×: Not Recommended

Red									
Color Index	Red 122	Red 149	Red 177	Red 179	Red 202	Red 202	Red 242	Red 247	Red 254
Product code	Quindo Magenta 1222	P.V.Fast Red B	Sunbrite Super Red 177 (227-0177)	Perrindo Maroon 1791	Quindo Magenta 202 (228-6725)	Sunplast G Magenta 202 2B (228-6864)	P.V.Fast Scarlet 4RF	P.V.Fast Red HB	Sunbrite Red 254 (226-6254)
Chemical Composition	QuinMonoazoacridone	Perylene	Anthraquinone	Perylene	Quinacridone	Quinacridone	Disazo	Monoazo	Diketopyrrolopyrrole
PK Compatibility	○	△	○	●	●	○	○	×	△
FDA Certification	○	○	○	○	○	○	○	-	○
Manufacturer	DIC	Clariant	DIC	DIC	DIC	DIC	Clariant	Clariant	DIC

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Blue									
Color Index	Blue 15 : 1	Blue 15:1	Blue 15:1	Blue 15:1	Blue 15:1	Blue 15:3	Blue 15:3	Blue 15:3	Blue 15:3
Product code	P.V.Fast Blue A2R	Sunfast Blue 15:1 (248-0061)	Sunfast Blue 15:1 (248-3745)	Fastogen Blue 15:1 (5055AE)	Meghafast Blue BK-P828	Sunfast Blue 15:3 (249-790F)	Sunfast Blue 15:3 (249-908P)	Fastogen Blue 15:3 (PA 5380)	Megha fast Blue BD909 KN P
Chemical Composition	Phthalo cyanine	Phthalo cyanine	Phthalo cyanine	Phthalo cyanine	Phthalo cyanine	Phthalo cyanine	Phthalo cyanine	Phthalo cyanine	Phthalo cyanine
PK Compatibility	●	○	●	●	○	●	●	●	△
FDA Certification	○	○	○	○	-	○	○	○	-
Manufacturer	Clariant	DIC	DIC	DIC	Clariant	DIC	DIC	DIC	Clariant

Brown								
Color Index	Black 12	Brown 24	Brown 25	Brown 33	Brown 48	Brown 48	Brown 48	Brown 48
Product code	42-160A	42-118S	P.V.Fast Brown HFR	42-129A	42-551A	42-552A	42-553A	42-554A
Chemical Composition	Fe.Ti.Zn Oxide	Inorganic	Monoazo	Fe.Cr.Zn Oxide	Fe.Ti.Zn Oxide	Fe.Ti.Zn Oxide	Fe.Ti.Zn Oxide	Fe.Ti.Zn Oxide
PK Compatibility	○	○	×	△	×	○	○	○
FDA Certification	-	-	-	-	-	-	-	-
Manufacturer	Tomatec	Tomatec	Clariant	Tomatec	Tomatec	Tomatec	Tomatec	Tomatec

Yellow													
Color Index	Yellow53	Orange64	Orange64	Orange72	Yellow110	Yellow 138	Yellow151	Yellow180	Yellow180	Yellow181	Yellow181	Yellow183	Yellow191
Product code	42-401A	P.V.Fast Orange H2GL	Fanchon Orange 64	P.V.Fast Orange H4GL	Sunbrite Yellow 1101	Sunbrite Yellow 1385	P.V.Fast Yellow H4G	Sunbrite Yellow 1804	Sunbrite Yellow 1804	P.V.Fast Yellow H3R	Sunbrite Yellow 1811	Sunbrite Yellow 1836	P.V.Fast Yellow H2GR
Chemical Composition	Inorganic	Benzimida zolone /monoazo	Benzimida zolone /monoazo	Benzimida zolone	Isoindo linone	Quino phthalone	Monoazo	Benzimida zolone disazo	Benzimida zolone disazo	Benzimida zolone /monoazo	Benzimida zolone /monoazo	Monoazo	Monoazo
PK Compatibility	△	○	△	●	×	×	△	○	○	○	○	○	△
FDA Certification	-	○	○	-	○	○	○	○	○	○	○	○	○
Manufacturer	Tomatec	Clariant	DIC	Clariant	DIC	DIC	Clariant	DIC	Clariant	Clariant	DIC	DIC	Clariant

Green								Violet			
Color Index	Green 7	Green 7	Green 7	Green 7	Green 7	Green 36	Green 50	Violet 19	Violet 19	Violet 19	Violet 23
Product code	Heliogen K8730	Sunfast Green 7 (264-0414)	Sunfast Green 7 (264-770F)	Sunfast Green 7 (264-8142)	P.V.Fast Green GNX	Heliogen K9360	Tomatec 42-633A	Quindo Violet 19 (228-1158)	Quindo Violet 19 (228-5199)	Quindo Red 19	P.V.Fast Violet RL
Chemical Composition	Phthalo cyanine	Phthalo cyanine	Phthalo cyanine	Phthalo cyanine	Phthalo cyanine	Phthalo cyanine	Inorganic	Quinacridone	Quinacridone	Quinacridone	Dioxazine
PK Compatibility	×	×	○	×	●	×	○	○	○	●	×
FDA Certification	-	○	○	○	○	-	-	○	○	○	-
Manufacturer	BASF	DIC	DIC	DIC	Clariant	BASF	Tomatec	DIC	DIC	DIC	Clariant