

# PIGMENT PREPARATIONS

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## Panapol Series

VINYL / CAB Chips & Solutions  
Polyester / Acrylic Chips & Solutions  
Wax Dispersion

## Panatex Series

Water Based Colorants

## Panax Series

Fluorescent Dispersion -FWB, NFC  
Luminescent Pigments

# PANAPOL VINYL / CAB Chips & Solutions

High Performance Organic Pigment Preparations

## General Information

PANAPOL VINYL and CAB Chips consist of organic pigments pre-dispersed in a vinyl chloride/vinyl acetate copolymer, or in a CAB resin (Cellulose Acetate Butyrate).

PANAPOL Vinyl & CAB Chips provide maximum color strength, gloss and transparency, as well as outstanding dispersion stability. These chip dispersions can be easily processed with dissolvers or other high speed mixers without the need for intensive milling.

Panapol Vinyl & CAB Solutions consist of 6–10% pigment, 8–12% polymer resin and 76–84% solvent (MIBK).

Highly transparent high performance pigments are used to produce these chips and solutions. The highest possible strength & transparency is achieved by the dry dispersion method utilized by our company.


These Color Chips & Solutions have good solubility and exhibit excellent storage stability after mixing into solution. In addition to our standard colors, chips & solutions by this dispersion process can also be made available for special pigments and materials.

## Application

Automotive Coatings, Ink, Plastic, Paint, Mobile, Cosmetic Bottles



# VINYL / CAB Chips & Solutions

Colour	Colour Index	Vinyl Chips Vinyl Solutions (H)	Pigment (%)		CAB Chips CAB Solutions (H)	Pigment (%)	
			Chip	Sol		Chip	Sol
	PY110	Yellow VY-110 / VY-110H	40	8	-	-	-
	PY139	Yellow VY-139 / VY-139H	50	6	Yellow CY-1139 / CY-1139H	50	7
	PY180	Yellow VY-180 / VY-180H	45	9	Yellow CY-1180 / CY-1180H	45	9
	PO71	Orange VO-071 / VO-071H	40	7	Orange CO-1071 / CO-1071H	40	6
	PBr25	Brown VBr-025 / VBr-025H	40	9	Brown CBr-1025 / CBr-1025H	40	9
	PR122	Pink VP-122 / VP-122H	35	7	Pink CP-1122 / CP-1122H	35	7
	PR254	Red VR-254 / VR-254H	50	8	Red CR-1254 / CR-1254H	50	8
	PR264	Red VR-264 / VR-264H	50	8	Red CR-1264 / CR-1264H	40	10
	PG7	Green VG-700 / VG-700H	50	10	-	-	-
	PB15:6	Blue VB-156 / VB-156H	45	9	Blue CB-1156 / CB-1156H	45	9
	PB60	Blue VB-060 / VB-060H	50	11	Blue CB-1060 / CB-1060H	40	8
	PV23	-	-	-	Violet CV-1023 / CV-1023H	40	8
	PV37	Violet VV-037 / VV-037H	40	8	Violet CV-1037 / CV-1037H	40	6
	PBk7	Black VBk-007 / VBk-007H	40	9	Black CBk-1007 / CBk-1007H	30	7
	Hybrid	Black VBk-7080H	-	10	Black CBk-1708H	-	10

# PANAPOL Polyester / Acrylic Chips & Solutions

High Performance Organic Pigment Preparations

## General Information

PANAPOL Polyester and Acrylic Chips consist of organic pigments pre-dispersed in Polyester or Acrylic resin.

PANAPOL Polyester & Acrylic Chips provide maximum color strength, gloss and transparency, as well as outstanding dispersion stability. These chip dispersions can be easily processed with solvents or other high speed mixers without the need for intensive milling.

PANAPOL Polyester Solutions consist of 7–10% pigment, 8–12% polymer resin and 76–84% solvent (Cyclohexanone) and PANAPOL Acrylic Solution consist of 7–10% pigment, 8–12% polymer resin and 76–84% solvent (MIBK).

Highly transparent high performance pigments are used to produce these chip dispersions. The highest possible strength & transparency is achieved by the dry dispersion method utilized by our company.









In addition to our standard colors, chips & solutions by this dispersion process can also be made available for special pigments and materials.

## Application

Automotive Coatings, Pre Coated Metal Paints, Aerosol Paints, Printing Inks, Plastic Coatings



# Polyester / Acrylic Chips & Solutions

Colour	Colour Index	Polyester Chips		Pigment (%)		Acrylic Chips		Pigment (%)	
		Polyester Solutions (H)	Chip	Sol	Acrylic Solutions (H)	Chip	Sol		
	PY151	Yellow EY-2151 Yellow EY-2151H	40	8	Yellow AY-3151 Yellow AY-3151H	40	8		
	PR122	Pink EP-2122 Pink EP-2122H	35	7	Pink AP-3122 Pink AP-3122H	35	7		
	PR144	Red ER-2144 Red ER-2144H	40	8	-	-	-		
	PR264	-	-	-	Red AR-3264 Red AR-3264H	40	10		
	PB60	Blue EB-2060 Blue EB-2060H	40	8	Blue AB-3060 Blue AB-3060H	40	8		
	PV23	-	-	-	Violet AV-3023 Violet AV-3023H	40	8		
	PBk7	Black EBk-2107 Black EBk-2107H	40	8	Black ABk-3007 Black ABk-3007H	40	8		
	Hybrid	Black EBk-2708 Black EBk-2708H	40	10	Black ABk-3708 Black ABk-3708H	40	10		

# PANAPOL Wax Preparations

Pigment Dispersions for PE, PP, PVC and Plastic applications

## General Information

PANAPOL WAX Dispersions consist of organic pigments pre-dispersed in a PE wax binder. They can be easily used with plastic resins and have good dispersibility and workability.

For certain plastics and applications, it is often an advantage to use pre-dispersed preparations instead of the dry pigments.

This is especially true if very thin-section products are to be colored, and if a very high degree of dispersion is required.

PANAPOL WAX Dispersions are also low dusting and can be metered automatically.












Dependent on the pigment utilized, the Panapol wax preparations exhibit moderate to high light fastness, heat stability, migration fastness.

## Application

Nonwoven Fabric, Masterbatch for Protective Films on Electronic Devices, PE, PP, PVC and Rubber



# Wax Dispersions

Colour	Colour Index	Product	Pigment Content (%)
	PY14	Panapol Yellow 2GSWX	50
	PY83	Panapol Yellow 3RWX	50
	PY180	Panapol Yellow 180WX	50
	PR48:2	Panapol Red 2RWX	50
	PR122	Panapol Red 1220WX	50
	PR214	Panapol Red 2140WX	50
	PR254	Panapol Red 2540WX	50
	PG7	Panapol Green GYWX	50
	PB15:2	Panapol Blue BSRWX	50
	PB15:3	Panapol Blue 7000WX	50
	PV23	Panapol Violet 23RWX	50

# PANATEX Water Based Preparations

Pigment Dispersions for Water-based Ink, Paint & Coating Applications

## General Information

Panatex series are aqueous non-ionic pigment dispersions of organic pigments.

All formulations are Nonylphenol Ethoxylate free and do not contain any resins or fillers.

High quality coatings of high brilliance and color strength can be achieved by using Panatex pigment dispersions, and the small particle size of these dispersions provides excellent long-term storage stability.

The Panatex series are products with medium to high acid & alkali resistance, and good dispersibility.
















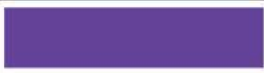


## Applications

Textile Printing, Paint & Coatings





# Water Based Colorants

Colour	Colour Index	Product	Pigment Content (%)
	PW6	Panatex White 9980	75
	PY14	Panatex Yellow 2GH	35
	PY42	Panatex Yellow 420	50
	PY74	Panatex Yellow 740	35
	PY83	Panatex Yellow 830	40
	PY110	Panatex Yellow 3110	35
	PY138	Panatex Yellow 1380	35
	PR8	Panatex Red 800	30
	PR101	Panatex Red 101	50
	PR168	Panatex Red 1680	35
	PR254	Panatex Red 2540	35
	PV19	Panatex Violet 190	35
	PG7	Panatex Green 700	45
	PO13	Panatex Orange 130	40
	PB15:0	Panatex Blue 510	40
	PB15:3	Panatex Blue 7000	35
	PV23	Panatex Violet 230	30
	PBk7	Panatex Black 1255	35

# Phosphorescent Pigments

	Panax Green		Panax Blue	
<b>Colour</b>	PL-120	PL-140	PL-420	PL-440
<b>Particle Size</b>	40um(±20)	10~19um	25~45um	20um
<b>Composition</b>	Al <sub>2</sub> O <sub>3</sub> SrOEuO <sub>3</sub> Dy <sub>2</sub> O <sub>3</sub>		Al <sub>2</sub> O <sub>3</sub> SrOEu <sub>3</sub> Dy <sub>2</sub> O <sub>3</sub>	
<b>Emission Wave Length (Peak)</b>	520nm		490nm	
<b>Moisture(%)</b>	Max.0.3	< 0.1	< 0.1	< 0.1
<b>Hardness</b>	6.5 ~ 7		6.5 ~ 7	
<b>Afterglow Period</b>	> 20hrs		> 20hrs	

