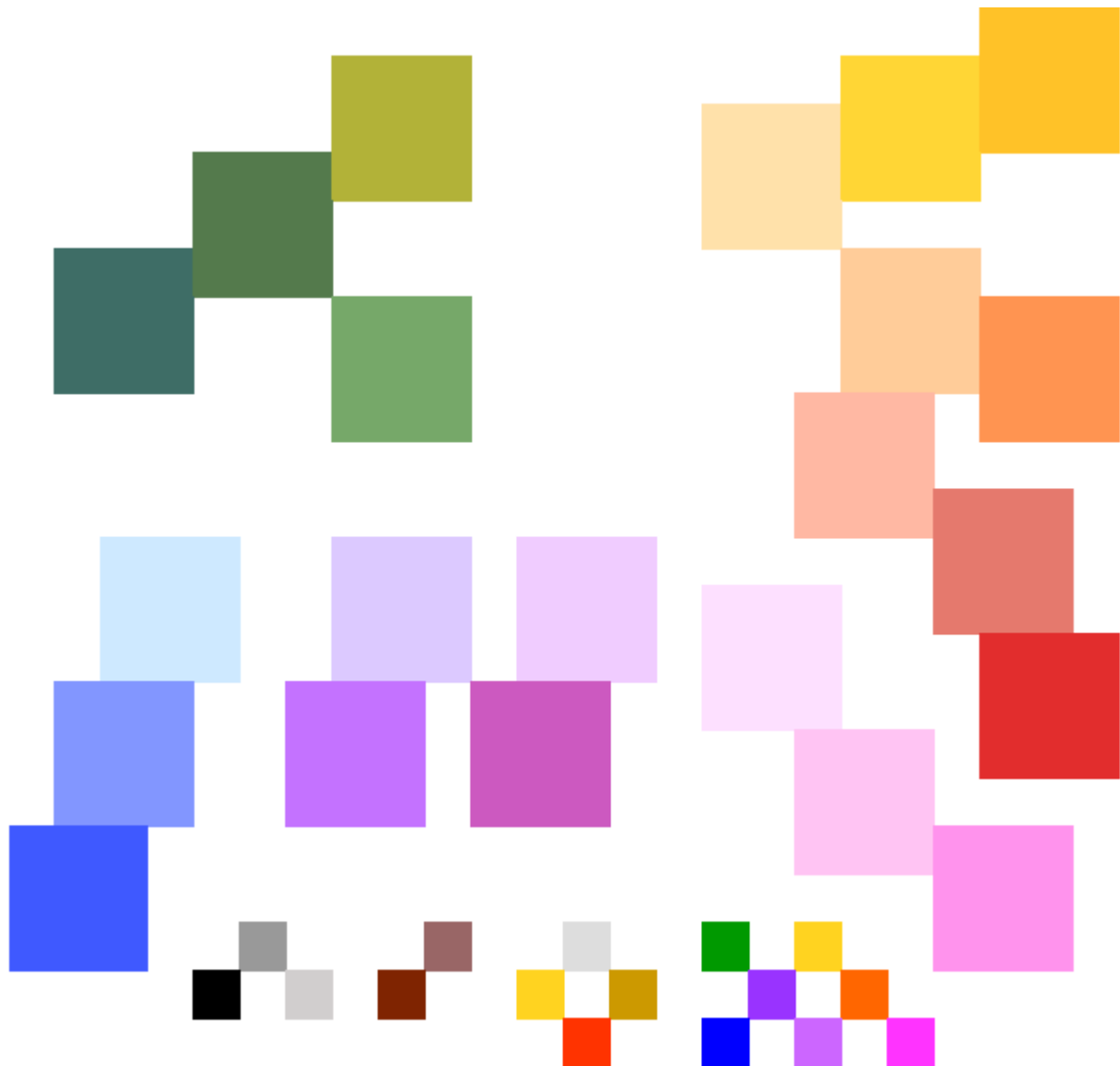


Masterbatches delivery list CAPROWAX P™

Masterbatches for Bioplastics/Biocomposites/Blends: PLA, PBS, PHA, PCL, CAPROWAX P™/Blends/BioMineralComposite, Bio-NFC/WPC, Casein, PVOH, Polysaccharides/Derivates, PVAc/Blends, Bio-TPE/UPR, NIPU.

As colourants are used biobased, bio-mineral and/or harmless, inorganic pigments with sustainable, lightfast brightening prefers without Titanium Dioxide. The carrier material is compostable and waterproof.

Colourations of bioplastics comply the specifications of DIN EN 13432.



Albrecht Dinkelaker
Polymer- and Product Development

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CAPROWAX P™ compostable of course



>COLOURATION<

Masterbatches for translucent colouration

Page 2 of 4

CAPROWAX P™	Shade chromatic	CAPROWAX P™	Shade chromatic	
Red 114 T		Red Y 121 T tex		
Yellow 310 T tex		Green 427 T tex		
Green 413 T tex	 MB500	Green 426 T tex		
Blue G 511 T tex		Blue R 516 T tex		
Violet B 616 T		Violet R 617 T		
R: reddish	Y: yellowish	G: greenish	B: bluish	T: translucently
tex: suited for colouration of filaments				
MB500 = 500g sample for process engineering experiments				

Addition of translucent CAPROWAX P - Masterbatches to different bioplastics: 0,5-4%. All shades of colour are comparable or similar to the product colours.

Masterbatches are produced batchwise together with compostable carrier material and pigments by contract manufacturing. CAPROWAX P™- carrier material consist of aliphatic, home/industrial compostable certified polyester and modified, readily biodegradable, renewable, GMO-free plant oil.

The compostability of carrier material is examined by MFPA, University Weimar:

Test material: CAPROWAX P® 6006

Test certificate No.: P31029-05 according to DIN EN 13432

Translucent to transparent, pearlescent or full covering colouration:

Injection- / Vacuum- / Blow- / Compression- / Melt-Moulding,
Mono-/Multifilaments, Foils/Sheets, Hotmelts, NF-BioComposites,
Thermoplastic Plasticine, Foams and Coating.

Pigments are biobased, biomineral or calcined, pigmentlike Kaolin and/or of inorganic, synthetic production. They are harmless, lightfast, non-migratory, temperature stable, insoluble in water, comparable with natural, mineral pigments and already mineralised. They are low-dusty incorporated in compostable carrier material and masterbatch pellets are added to different bioplastics in a range of 0,5-6%.












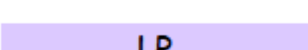






Processing at 90-200°C, short time up 220°C. In coloured final products content of each separate pigment is ≤1%.

Colouration of bioplastics comply the specifications of DIN EN 13432.

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BOW
RAIN SOIL

Masterbatches for covering colouration

CAPROWAX P™	Shade chromatic	CAPROWAX P™	Shade chromatic
Red 112 lw		Red FK 112	LP
Red 116 lw tex		Red FK 117	LP
Orange 204 lw tex		Orange FK 205	LP
Yellow 307 lw tex		Yellow FK 312	LP
White FK 005 tex		White C 004 BM ww	MB500
Green 412 lw		Green 418 ww tex	
Green 417 ww tex		Green 416 ww tex	
Blue G 510 lw tex		Blue FK G 543	LP
Blue FK G 512		Blue FK G 509	LP
		Blue FK R 542	LP
Violet FK B 605		Violet FK R 608	LP
Violet B 607 lw tex		Violet R 610 lw tex	
Brown 702 lw wcb tex		Brown FKV 709 bb tex	LP
Grey 821 BM ww / wcb		Grey FK 824 S wcb	LP
Black 801 wcb		Black V 804 bb	
<p>V: vegetable Carbon bb: biobased FK: Kaolin, calcined ww = TiO2 free BM: Biomineral, natural Calcium Carbonate lw = ≤ 0,1% TiO2 in coloured polymer R: reddish G: greenish B: bluish LP: Laboratory Prototype wcb = without carbon black tex: suited for colouration of filaments S: heat stabel up to 220°C MB500 = 500g sample for process engineering experiments</p>			

Addition of CAPROWAX P - Masterbatches to different bioplastics: 0,5-4%.
 A brightening without Titanium Dioxide is possible. The palette of masterbatches is changed to the eco-friendly, soil-related, calcined, pigmentlike Kaolin (FK) as white pigment. Titanium Dioxide will be used strong reduced only. The biomineral, Calcium Carbonate is used as a white pigment with gentle covering brightening.
 All shades of colour are comparable or similar to the product colours.
 Injection-/ Vacuum-/ Blow-/ Compression/ Melt-Moulding, Foils/Sheets, Filaments, Hotmelts, NF-BioComposites, Plasticine, Film, Foams, Coating

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Your order of CAPROWAX P™ - Masterbatches

See colour palettes page 2-3: Shades of colours + code

Technical samples: You can get up to 4 samples a 50g pellets free of charge
 For additional process engineering experiments
 you can get 500g MB500 samples see page 2-3.
 After consultation 20-25 kg testmaterial for scaling up

New MB-Recipes: Coloured CAPROWAX P™ - Buttons on request.

Supply quantities:	100 kg, 200 kg, 500 kg
+/- 25 kg:	After your selection you will get an offer about location-based, direct delivery
25 kg PE-Bags in carton or on palett	For a better raw material procurement a yearly forecast is required
	*) Since corona crisis the delivery of raw material is temporarily delayed
Market area:	European Union
Prices:	According to offer
Payment conditions:	According to offer
Delivery date *):	after completely delivery of raw material to the toll manufacturer plus up to 6 - 7 weeks
Miscellaneous:	Product infos and SDS

Informations, quote requests and orders at

Albrecht Dinkelaker

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Fon: 069 76893910

Banking details/Finance office: On request

VAT-No.: DE165 604 009

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